DOCUMENT RESUME

ED 222 386 SE 039 490

AUTHOR Gaddy, Carol T., Ed.; Wells, Kathy, Ed.
TITLE Energy Information Resources.
INSTITUTION Arkansas State Energy Office, Little Rock.
PUB DATE 82
NOTE 155p.

EDRS PRICE MF01/PC07 Plus Postage.
DESCRIPTORS Books; Conservation Education; Directories; *Energy; *Energy Conservation; Environmental Education; Films; Fuels; Indexes; *Information Sources; Organizations (Groups); Periodicals; *Resource Materials; *Solar Radiation
IDENTIFIERS *Alternative Energy Sources; *Arkansas; Energy Education

ABSTRACT

This document was published with the small energy user in mind--the student writing a term paper, the homemaker seeking tips on cutting utility bills, the elderly, farmers, small business owners, factory managers, and Arkansans in all walks of life. Although the volume contains a significant selection of books, magazines, films, and organizations dealing with the field of energy (especially conservation and renewable resources) it is not intended to provide exhaustive coverage of a topic on which new material is published daily. Following a list of publications available from the Arkansas Energy Office, annotated lists of books, directories, and films are provided. Entries in each of these three categories are grouped as general materials, conservation materials, solar energy materials, and materials on renewable/alternative resources. Each entry includes title, source, cost (if any), page numbers (or viewing time for films), annotation, and entry code. A list of audio-visual sources, detailed subject index (with code numbers), list of periodicals containing energy information (categorized by subject--general, conservation, solar energy, alternative/renewable resources), and governmental/non-governmental organizations publicizing and discussing aspects of the energy situation in the United States, are also provided. (Author/JN)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED222386

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

✓ This document has been reproduced as received from the person or organization originating it.
Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

ENERGY INFORMATION RESOURCES

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY
Arkansas Energy Office
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

SE 039 490

Arkansas Energy Office

ARKANSAS ENERGY OFFICE

A Division of the Arkansas Industrial Development Commission
One State Capitol Mall
Little Rock, Arkansas 72201
(501) 371-1370
Energy Hotline: 1-800-482-1122

Carol T. Gaddy and Kathy Wells, Editors

The Editors wish to acknowledge the unremitting efforts of Ruby Carruth, Karla Gordon, Nancy Kanakis, Elsie Robinson, Melodee Sellers and Scarlet White, without which this book could not have been published.

1982

Frank White
Governor

TABLE OF CONTENTS

Introduction 1

Arkansas Energy Office Bibliography 2

Books
- Useful Books List 4
- General 7
- Conservation 32
- Solar 49
- Renewables and Alternatives 70

Directories
- General 82
- Conservation 85
- Solar 85
- Renewables and Alternatives 87

Films
- Arkansas Energy Office Films 90
- General 93
- Conservation 99
- Solar 102
- Renewables and Alternatives 106
- Audio-Visual Sources 108

Subject Index 116

Periodicals
- General 134
- Conservation 136
- Solar 137
- Renewables and Alternatives 138

Organizations
- Government Agencies 141
- Citizens' Groups 144
- Industry Representatives 148

INTRODUCTION

The 1973 Arab Oil Embargo and resulting supply disruptions shocked us into an awareness of *the Energy Crisis*. Since then, rising fuel and utility prices have forced us to curb our energy appetites and look for new energy solutions.

Electric vehicles are no longer an inventor's oddity . . . solar cells have returned from outer space to earthbound rooftops . . . windmills and water wheels, once a nostalgic remnant of our rural past . . . are seriously proposed as methods of dealing with a dwindling, costly and politically-unstable supply of fossil fuels.

Increasingly, people sense the need to become energy literate, efficient and self-reliant.

Energy Information Resources was published by the Arkansas Energy Office with the small energy user in mind -- for the student writing a term paper, for the homeowner seeking tips on cutting utility bills, for the elderly, for farmers, small business owners, factory managers, and Arkansans in all walks of life.

This volume contains a significant selection of the books, magazines, films and organizations dealing with the field of energy, especially conservation and renewable resources, but is not intended to provide exhaustive coverage of a topic in which new material is published daily. This selection was prepared with advice from the technical staff of the Arkansas Energy Office, and with reliance upon energy journals and newsletters published by other energy agencies.

Some publications listed here may no longer be available; check your library's copy of *Books in Print* to determine whether a title is still current, and to obtain the address of the publisher if you wish to acquire a personal copy of a book. Additional energy books may be found in *Books in Print*.

To pursue an energy question with some organization not listed here, consult the reference *Encyclopedia of Associations* at your library.

To check on energy magazines beyond those listed here, look for your library's copy of *Ulrich's Reference Guide*.

Your local library may be willing to purchase books or magazines in this field and this should be discussed with local librarians.

Energy is much too pervasive and important a factor in our personal and collective lives for us to "leave it to the experts," as we once did, and be content to merely flick a switch.

The topic of energy has its complexities and its technical aspects, to be sure, but, as one energy expert said: "Energy is neither too complex nor too technical for ordinary people to understand . . ."

Information is available, and through *Energy Information Resources*, we hope Arkansas people will find it more accessible.

ENERGY BIBLIOGRAPHY

This is a list of publications available through the Arkansas Energy Office. These publications may be obtained by calling or writing the Arkansas Energy Office. Ordering information is at the end of this bibliography. All publications are free of charge, unless otherwise stated.

Anaerobic Digestion System. Technical report on production, cost, energy value, residue and facility testing of methane generation. 13 pp.

Arkansas Alternative Energy Industries. List of distributors, installers, designers and builders of wind, wood, water, conservation and solar systems in Arkansas. 1982. 6 pp.

Arkansas Climate Atlas. Describes the distribution and variation of climatic elements in Arkansas, using data from the National Climatic Center and research reports from the Arkansas Energy Office. 1981. 98 pp.

Arkansas Energy Future. A series of informational booklets on energy resources of Arkansas:

Alcohol. Covers incentives for production, processes and regulations of producing alcohol; appendices. 1980. 33 pp.

Coal. History, geology and mining of Arkansas coal; glossary. 1980. 17 pp.

Earth Homes. Precautions to take in planning a home underground. Includes floor plans. 1981. 35 pp.

Lignite. Introduction to Arkansas lignite, its outlook and impact; glossary. 1979. 17 pp.

Methane. Production and use of methane fuels. 1981. 32 pp.

Oil & Gas. Drilling for, history and geology of Arkansas oil and gas; glossary. 1980. 25 pp.

Resource Map. Arkansas is blessed with a variety of marketable energy minerals, which are mapped in this brochure. 1980. 6 pp.

Solar Energy. A general guide to solar energy in Arkansas. 1981. 72 pp.

Solar Greenhouses. Plans for construction of a solar greenhouse to help control utility bills and grow plants at the same time; appendices; bibliography. 1980. 38 pp.

Solar Hot Water. Plans for several types of solar water heaters. 1981. 80 pp.

Arkansas Energy Office. Informational brochure describing the programs and operations of the Arkansas Energy Office. 1981. 6 pp.

Arkansas Energy Saving Handbook For Homeowners. A comprehensive guide to weatherizing your home and installing energy-saving features such as solar water heaters and wood stoves. 1981. 288 pp.

Arkansas Passive Solar Home Competition -- Regional Design Criteria. Contains five designs for solar homes submitted in the Arkansas Passive Solar Home Competition, which was conducted in 1981 by the Arkansas Energy Office and the Arkansas Housing Development Agency. 1981. 44 pp.

Arkansas Recycler's Guide. A list of aluminum and paper-recycling companies in Arkansas. 1981. 2 pp.

Arkansas Residential Conservation Standards For Homes. The energy-efficient standards for homes in Arkansas. 1981. 2 pp.

Arkansas Solar Retrofit Guide -- Greenhouses, Air Heaters, Water Heaters. Tells how to install structures or devices on existing buildings to augment existing heating sources with solar energy, and how solar retrofits should be designed to suit the climate in Arkansas. 1981. 110 pp.

Check Your Home Energy Consumption.

A simple formula for calculating your energy consumption as recorded on your utility bills. 1981. 6 pp.

A Common Sense Guide To Saving Gasoline. 18 good ways to save gasoline, energy, and wear and tear on your car. 6 pp.

Energy Films. A bibliography of energy films available on loan through the Arkansas Energy Office. 1982. 2 pp.

Fill It Up. Tips on carpooling. Formula for estimating your carpool savings and rules for "making it work". 1979. 6 pp.

Interim Report on Wind Energy in Arkansas. Overview, graphs and charts to assist the wind prospector in Arkansas. June 1980. 2 pp.

Keeping Cool. Proper house ventilation and cooling without a central system. 1981. 6 pp.

1979 Arkansas Rules and Regulations For Energy Efficiency Standards For New Building Construction. A compilation of the rules and regulations resulting from the Energy Policy and Conservation Act of 1975 (P.L. 94-163) as they apply to Arkansas; appendices. 110 pp. $4.

1979 Workbook For the Arkansas Rules and Regulations For Energy Efficiency Standards For New Building Construction. To accompany above. $4.

Recycling Oil. Tells how to change oil in your car, and to locate an oil recycler who will take the used oil and see that it is refined and used again. 1982. 4 pp.

Save Energy; Cut Taxes. Informational brochure describing the valuable tax incentives provided by the Arkansas and federal Governments to encourage home energy conservation and development of alternative energy sources. 1982. 12 pp.

Slick, Easy Money. Provides a guide to service-station owners and others interested in recycling used oil and profiting from oil recycling. 4 pp. 1982.

Small Dam Survey. A statewide inventory of undeveloped and partially-developed hydropower sites that would generate under 30 megawatts. 1981. 12 pp.

Starting A Driver-Owned and Operated Vanpool. This booklet contains all the information you need to start your own vanpool. 1981. 8 pp.

Successful Solar Buying. A consumer's guide to buying solar equipment. 1982. 12 pp.

Tips For Energy Savers. Provides tips for saving energy around the house, in eliminating drafts, controlling heat loss and gain through windows and doors, conserving energy in water heaters and similar advice. 4 pp. 1982.

Wood Heating. What you should know when buying wood and woodburners, safe operation of woodburning equipment and a checklist to help you get started. 1982. 12 pp.

To Be Published In The Near Future:

Treasure Your Trash. Provides a guide for city officials and others interested in methods of energy conservation in the collection, transportation and disposal of garbage, and includes a discussion of incinerators.

These publications are provided through your tax dollars. Choose carefully, use wisely. Because of the expense of some publications, a small fee is charged. When ordering, please specify the title, quantity and price of each publication. All orders must be prepaid by check or money order made payable to the **ARKANSAS ENERGY OFFICE.** *No cash please. Publications will be sent by third class mail. To order, call toll-free* **1-800-482-1122** *or write:* **Arkansas Energy Office, One State Capitol Mall, Little Rock, Arkansas 72201.**

BOOKS

and Magazine Articles

This chapter contains listings of books and magazine articles selected from a variety of sources that should be useful to researchers in the energy field. First is a list of books that have been useful to the staff of the Arkansas Energy Office, or which are frequently cited by other energy agencies or publications. They are listed by category and by the code number under which the volumes may be found on subsequent pages.

General

1001
Accidents Will Happen

1005
America's Energy

1008
Architecture and Energy

1013
ASHRAE Handbook and Product Directory

1018
The Best Present of All

1045
A Design and Construction Handbook for Energy-saving Houses

1063
Energy and Order: A High-school Teaching Sequence

1069
Energy Controversy: Soft-path Questions and Answers

1076
Energy: Facing Up to the Problem, Getting Down to Solutions

1081
Energy for Survival: Alternative to Extinction

1083
Energy Future

1084
Energy in America's Future: The Choices Before Us

1096
Energy Technology Handbook

1106
The Engineer's Companion

1116
The Global 2000 Report to the President

1141
Lifestyle Index

1152
A New Prosperity: Building a Sustainable Energy Future; the SERI Solar/Conservation Study

1163
Nuclear Madness: What You Can Do

1177
The Politics of Energy

1184
Power Plant Escalation: Nuclear and Coal Capital Costs and Economics

1190
Rays of Hope: The Transition to a Post-petroleum World

1191
Reaching Up, Reaching Out: A Guide to Organizing Local Solar Events

1202
The Self-sufficient House

1204
Small Is Beautiful: Economics as if People Mattered

1206
Soft Energy Paths: Toward a Durable Peace

1207
The Solar Age Resource Book

1214
Superhouse: The Next Generation of Passive Solar, Energy-saving Houses

1230
Your Career in Energy-related Occupations

Conservation

1252
Earth-sheltered Housing Design

1272
Energy Conservation through Building Design

1292
Energy: The Conservation Revolution

1296
The $50 and Up Underground House Book

1297
547 Easy Ways to Save Energy in Your Home

1298
From the Walls In

1305
The Handbook of Earth Shelter Design

1340
In the Bank or Up the Chimney? A Dollars and Cents Guide to Energy Savings Home Improvements

1343
Life-cycle Costing: A Practical Guide for Energy Managers

1345
Low-cost Earth Shelters

1349
Movable Insulation: A Guide to Reducing Heating and Cooling Losses through the Windows in Your Home

1371
Stop Burning Your Money

1373
Superinsulated Houses and Double-envelope Houses: A Survey of Principles and Practice

1376
Thermal Shutters and Shades: Over 100 Schemes for Reducing Heat Loss through Windows

1377
30 Energy-efficient Houses . . . You Can Build

Entries of value to small business owners, farmers, factory managers, government officials and university managers are listed below.

1042
The Dairy/Energy Connection

1237
Campus Energy Management Projects

1245
Cutting Energy Costs: The 1980 Yearbook of Agriculture

1256
Energy Audit for Growers

1257
Energy Audit Workbook for Hotels and Motels

1264
Energy Conservation for American Agriculture

1275
Energy Cost Reduction for Automotive Service Facilities

1277
Energy Cost Reduction for Retail Stores

1278
Energy Cost Reduction in Gasoline Service Stations

1279
Energy Cost Reduction in the Baking Industry

1280
Energy Cost Reduction in the Fabricare Industry

1281
The Energy-efficient Church: How to Save Energy (and Money) in Your Church

1282
Energy Generation from Cotton Gin Trash

1284
Energy Management: Trade Associations and the Economics of Energy

1302
Guide to Energy Conservation for Food Service

1333
How You Can Profit from the Energy Crisis

1336
Industrial Energy Management

1356
Police Cars and Energy Conservation

1360
Reducing Energy Costs in Wholesale-distribution

1365
Saving Energy Costs in Your Automobile Dealership

1367
Saving Money with Energy Conservation: an Energy Audit Workbook for Warehouses

1388
Utilization of Reject Heat

1644
Costs of Using Crop Residues in Direct Combustion Applications

Solar

1403
An Attached Solar Greenhouse

1420
The Complete Solar House

1438
Energy: The Solar Prospect

1445
Food and Heat Producing Solar Greenhouse: Design, Construction, Operation

1448
A Golden Thread: 2500 Years of Solar Architecture and Technology

1475
Making and Using Electricity from the Sun

1480
Natural Solar Architecture

1481
New Inventions in Low-cost Solar Heating

1489
The Passive Solar Energy Book

1490
Passive Solar Energy: The Homeowners' Guide to Natural Heating and Cooling

1496
Peoples' Solar Sourcebook

1506
Principles of Solar Engineering

1527
Solar Cell and Photocells

1534
The Solar Decision Book: Your Guide to

Making a Sound Investment

1536
Solar Designing

1544
Solar Energy Experiments for High-school and College Students

1547
Solar Energy: Fundamentals in Building Design

1563
The Solar Greenhouse Book

1556
Solar Energy Thermal Processes

1570
Solar Heating Design by the F-Chart Method

1573
The Solar Home Book: Heating, Cooling and Designing with the Sun

1600
The Sun Betrayed

Renewable/Alternative Sources

1633
Brown's Alcohol Motor Fuel Cookbook

1644
Decisionmaker's Guide to Wood Fuel for Small Industrial Energy Users: Final Report

1646
Direct Utilization of Geothermal Energy: A Technical Handbook

1657
Fireplace Stoves, Hearths and Inserts: A Coal and Wood-burner's Guide and Catalog

1675
Harnessing Water Power for Home Energy

1680
Homebuilt Wind-generated Electricity Handbook

1688
Making Alcohol Fuel -- Recipe and Procedure

1695
Methane: Planning a Digester

1704
Other Homes and Garbage: Designs for Self-sufficient Living

1720
Soft-tech

1724
Wind and Windspinners: A Nuts 'n Bolts Approach to Wind-electric Systems

1730
The Wind Power Book

1742
Wood Heat Safety

Books

General

1001
Accidents Will Happen: The Case Against Nuclear Power. (Washington, DC: Environmental Action Foundation, 1979) $2.50, paper. Covers anti-nuclear arguments.

1002
Act One: Activate Communities Today/Organize Now for Energy: A Workbook for Participants in the Training Session for Community Development. (Washington, DC: U.S. Department of Energy, Office of Consumer Affairs, 1979.) 200 pages.
Offers a very useful compilation of information on a variety of grant possibilities.

1003
Agriculture and Energy, William Lockeretz, Ed. (New York, NY: Academic Press Inc., 1977.) 750 pages.
Discusses energy-saving practices applicable

on the farm.

1004
The Amazing 83-MPG Hybrid Electric Car. (Henderson, NC: Mother Earth Bookshelf.) $15.
Plans explain features important to all electric cars and tell how to analyze transportation requirements in order to match components for your needs. The instructions detail many different options; for instance, they outline the use of diesel engines, as well as two-cycle and four-cycle gasoline engines. The vehicle design plans detail the project step-by-step.

1005
America's Energy, Robert Engler, Ed. (New York, NY: Pantheon, 1981.) $7.95, paper.
Offers a collection of informative articles on energy which were published in **The Nation** magazine. The authors represent a broad spectrum: economists, attorneys, poets, conservationists, and so forth. The articles date from the late 19th century to the present.

1006
Annual Review Of Energy. (Palo Alto, CA: Annual Reviews, Inc., 1976 - 1979.) $17/volume.
Covers development in the energy field, year by year.

1007
Architectural Use of Underground Space: Issues and Applications, K. B. Labs. (New Haven, CT: Underground Design Research, 1975.) $20.
Provides information on construction of earth homes.

1008
Architecture and Energy, R. G. Stein. (Washington, DC: American Institute of Architects Publications, 1977.) 322 pages, $6.95, paper.
Outlines the problems with today's architecture and explains how to conserve energy through better design of buildings.

1009
The Architects' Guide to Energy Conservation: Realistic Energy Planning for Buildings, S. Jamul. (New York, NY: McGraw-Hill Publications Company, 1980.) 229 pages, $18.50.
Offers a practical working tool to help architects design buildings within which energy conservation can be effectively and economically achieved.

1010
Arkansas And Energy: A Look at the Alternatives, Paul Butt. (Little Rock, AR: Arkansas Ecology Center.) $5.25.
Offers information on the energy situation in Arkansas. Used extensively as teacher and student background information in the S.A.V.E. program, Arkansas' Energy Curriculum for the 12 grades and kindergarten.

1011
"Arkansas Equipment: Air Conditioning and Heating Equipment," **1970 Census**, Table 36, Detailed Housing Characteristics.
Provides statistics on Arkansas homes in terms of the numbers with central heating and cooling, etc.

1012
"Arkansas Fuels and Appliances," **1970 Census**, Table 37, Detailed Housing Characteristics.
Gives numbers of homes using various types of energy.

1013
ASHRAE Handbook and Product Directory: 1977. (New York, NY: American Society of Heating, Refrigeration, and Air-Conditioning Engineers, Inc., 1977.)
Presents the fundamental theory and basic data applying to heating, refrigeration, ventilating, and air-conditioning.

1014
Atomic Energy: A New Start, David E. Lilienthal. (New York, NY: Harper and Row Publications, 1980.) 160 pages, $8.95.
Discusses the start of nuclear energy research and production in America. He proposes a

corporation, responsible to the president, that would carry on research and development to find safer, peaceful uses of nuclear power.

1015

Atomic Energy and Safety Controversy, G. M. Ferrara. (New York, NY: Facts on File, 1978.) 167 pages, $17.50.

Examines the history of the debate over safety-related issues associated with failures in reactor core cooling systems, problems surrounding nuclear wastes, environmental impacts of thermal pollution, and the threat of worldwide proliferation of atomic weapons.

1016

Atomic Energy for Human Needs, D. R. Michelsohn. (New York, NY: Julian Messner, 1976.) 189 pages, $5.95.

Examines the many uses and benefits of applied nuclear technology and science. Chapters discuss radioactive dating, neutron activation analysis, radioisotopes in modern medicine and cancer therapy, isotope uses in agriculture and food processing, nuclear reactions for power production, and nuclear mining and excavating.

1017

Award Winning Energy Education Activities for Elementary and High School Teachers. (Washington, DC: U. S. Department of Energy, 1979.) 38 pages.

Provides a brief description of each of the 10 winning entries of a nationwide teachers' contest for the design of student activities around energy themes. The contest was open to any teacher, in any discipline, at any grade level. The winning entries outlined include energy units for primary grades; aluminum recycling experiment; energy in art; black gold; energy economy, and education; local investigation of container use; kill a watt; designing an energy efficient house; solar heating and cooling; and living with wind power.

1018

The Best Present of All, Oliver A. Houck. (Washington, DC: National Wildlife Foundation, 1974.) 23 pages, $15.

Tells the tale of a king's search for the best present for his kingdom's children. He lets all the major energy sources present their qualifications, pro and con, until he finds the two -- solar and geothermal -- that can give his children and their descendants the gifts of warmth and light forever without destroying the other things in life they will always want and need. Adapted as a play for elementary students in S.A.V.E., Arkansas' Energy Curriculum for public schools.

1019

A Better Place to Live, Michael N. Corbet. (Emmaus, PA: Rodale Press.) 256 pages, $14.95, paper.

Suggests we must reshape our thinking about human settlements for the future, and lays out specific goals for tomorrow's communities that will allow us to better integrate basic human needs into the realities of suburban and urban living environments.

1020

Building An Energy Consensus: Key Issues for the 80's. (Washington, DC: Northeast-Midwest Institute.) $6.50.

Describes a plan prepared by the Northeast-Midwest Congressional Coalition that calls for energy conservation, renewable fuels and decentralized community-based energy systems. The Coalition is a bipartisan alliance of more than 200 members of Congress.

1021

Building For Self-Sufficiency, R. Clarke. (New York, NY: Universe Books, 1976.) 296 pages, $5.95.

Describes methods of meeting energy needs independent of traditional systems.

1022

Building the Low-Cost Home: The Owner-Built Dome Home, Gene Hopster. (Domeplans Press, 1979.)

Provides information on design and construction of a dome home. Domes are inexpensive to build and energy-efficient places to live.

1023
Buildings, Climate and Energy, T. A. Markus, et al. (Marshfield, MA: Pitman Publishing, Inc., 1980.) 540 pages, $21.95.
Covers thermal comfort, climate building heat loss under steady state conditions, heat gain due to solar radiation -- steady state conditions, intermittent heating of a building, winter conditions, air infiltration into buildings by natural means, and building shape. Also presented are experimental methods, engineering services, energy accounting, and heat recovery methods.

1024
Buildings Energy Use Date Book: Edition 1, G. E. Liepins, et al. (Oak Ridge, TN: Oak Ridge National Laboratory, 1978.) 487 pages, $15.25.
Contains statistics on current and past energy end-use activities in the residential/commercial sector and presents data on other factors influential to this sector. Included are sector definitions, buildings inventory, appliance inventory, heating and cooling units inventory, appliance efficiencies, structural characteristics, climatological data and appliance fuel use, national economic and demographic determinants, fuel consumption and prices, and a survey of selected energy studies.

1025
Careers In The Energy Industry, B. H. Kraft. (New York, NY: Franklin Watts, Inc., 1977.)
Offers a description of energy-related careers with the government.

1026
Central Heating: A Complete Guide, J. Bowyer. (North Pomfret, VT: David & Charles, Inc., 1977.) 144 pages, $7.41.
Gives a comprehensive guide to all types of central heating with complete information on how much each system costs to run using any type of fuel during a typical winter.

1027
"Central Heating Systems Buyers' Guide," **Wood'n Energy**, April, 1982.
Includes laboratory tests applied to units, and safety standards met.

1028
Citizen's Guide to the Fuel Adjustment Clause. (Washington, DC: Environmental Action Foundation, 1975.) 52 pages.
Provides information related to the automatic fuel adjustment practices of electric utilities and suggests solutions to make regulation of fuel costs more effective. The first half of the study begins with a description of utility regulation, explaining how adjustments such as the fuel clause have enabled power companies to circumvent the process. Chapter 11 examines how overcharges are encouraged by the fuel adjustment clause and explores clauses which are improperly designed.

1029
Citizens: The Untapped Energy Source. (Washington, DC: League of Women Voters Education Fund, 1980.) 8 pages.
Provides suggestions for planning a community energy education project. It includes a sample conference agenda, suggestions on organizing an energy fair, and the do's and don'ts of producing a lively slide show or public service announcement.

1030
The Closing Circle, Barry Commoner. (New York, NY: Alfred A. Knopf, Inc., 1971.) $2.95, paper.
Urges consideration of new sources of energy in harmony with natural processes.

1031
Common Sense In Nuclear Energy, Fred Hoyle, et al. (San Francisco, CA: W. H. Freeman, 1980.) 88 pages, $3.95.
Covers the nuclear debate in general.

1032
A Comparison of Energy Expenditures by Elderly and Non-Elderly Households, 1975 and 1985, U.S. Department of Energy, (Washington, DC: U.S. Government Printing Office, 1980.) $4.
This is a 96-page book analyzing many aspects of energy expenditures comparing elderly and

non-elderly households.

1033
The Complete LP Gas -- Gasoline Conversion, Ronald Anderson. (Henderson, NC: Mother Earth Bookshelf.) 20 pages, $6.95, paper.
Provides basic information on converting your car or truck to run on inexpensive, clean-burning liquid petroleum (LP or propane).

1034
The Complete LP Gas -- Gasoline Trouble-Shooters Guide, Ronald Anderson. (Henderson, NC: Mother Earth Bookshelf.) 8 pages, $4.50.
Outlines the problems that can occur in vehicles which can run on either liquid petroleum gas (LP or propane) or gasoline. The author identifies each type of problem in simple, nontechnical language and lists procedures for correcting it.

1035
Composting Toilet. (Compton, NH: The New Mullbank, Inc.)
Provides basic information on toilets that compost waste instead of flushing it into a central sewer system.

1036
Concepts In Thermal Comfort, David Egan. (Englewood Cliffs, NJ: Prentice-Hall, Inc. 1975.) 203 pages, $14.95.
Displays the interaction of weather, construction materials, and mechanical systems in architecture to achieve human thermal comfort. Provides valuable checklists of design principles and energy conservation techniques for buildings.

1037
Consumer Products Advertised to Save Energy -- Let the Buyer Beware. (Gaithersburg, MD: Government Accounting Office, Document Handling and Information Services Facility.) Free.
Reports on studies conducted by various branches of the federal government to verify claims made on energy-saving products. In many cases, average savings amount to much less than that advertised. Also offers a bibliography and a glossary.

1038
The Consumer's Energy Handbook, Peter Norback, et al. (New York, NY: Van Nostrand Reinhold, 1981.) 362 pages, $14.95, paper.
Deals with conservation measures, such as insulation, weatherizing, landscaping, using firewood, and choosing from many efficient heating systems, and evaluates the economic, technical, and legal aspects of solar and nuclear energy, building codes, electric cars, and better lighting. In addition, it includes a directory of government energy offices, associations, insulation contractors, and solar equipment manufacturers.

1039
Coping With the Energy Crisis. (Washington, DC: Consumer Energy Council of America, 1974.) Free.
Provides detailed information on federal energy regulations, especially those relating to heating fuels. Geared to community groups and voluntary organizations, with primary focus on the impact of the energy shortage on the poor.

1040
County Energy Plan Guidebook. (Fairfax, VA: Institute for Ecological Policies, 1979.) $7.50.
Develops a model for determining energy end use in a community. Gives guidelines for establishing a community energy project.

1041
Creating Alternative Futures: The End of Economics, Hazel Henderson. (New York, NY: Berkley Publishing Corporation, 1978.) 403 pages, $4.95.
Represents the collected writings of futurist Hazel Henderson with an introduction by E. F. Schumacher. Her essays, which have appeared widely in magazines, cover a wide range of energy, economic, and societal issues.

1042
The Dairy/Energy Connection. (Washington,

DC: National Independent Dairies Association.)
Tells how dairies, which are small business operations, could reduce energy costs as much as 20 percent.

1043
The Debate Over Acid Precipitation -- Opposing Views -- Status of Research. (Washington, DC: General Accounting Office.) 54 pages, $9.
Discusses the use of coal as a substitute for imported oil and concern over the possible impact of acid precipitation on the environment and human health.

1044
Design and Build Your Own Electric Vehicles, Michael Hackleman. (Mariposa, CA: Earthwind, 1977.) $8.
Provides information on the basics of building an electric vehicle.

1045
A Design and Construction Handbook for Energy-Saving Houses, Alex Wade. (Emmaus, PA: Rodale Press, 1980.) 432 pages, $14.95, paper.
Takes the reader through all preparation and construction operations for home building. Also featured are 11 custom-made, energy-efficient houses, each with floor plans and elevations, that make use of natural materials and low-cost building techniques.

1046
Design and Installation Manual For Thermal Energy Storage, Roger L. Cole, et al. (Sacramento, CA: Solar Energy Information Services, 1981.) $42.50.
Offers practical information on design and installation of air-based, liquid-based and latent heat storage for solar designers, contractors, architects, engineers, manufacturers and do-it-yourselfers.

1047
Design Connection: Energy & Technology In Architecture, Ralph Crump. (New York, NY: Van Nostrand Reinhold, 1980.) $19.95.
Addresses the relationship between architectural design, energy, and technology for layperson and technician.

1048
Design With Climate: Bioclimatic Approach To Architectural Regionalism, Victor Olgyay. (Princeton, NJ: Princeton University Press, 1963.) 190 pages, $32.50.
Goes step-by-step -- both intuitively and analytically -- through a basic climatic approach to design, through interpretation of the design using architectural principles, and finally to application.

1049
Designing Tomorrow's Cars, Walter Korff. (Henderson, NC: Mother Earth Bookshelf.) 271 pages, $19.95.
Offers a comprehensive look at ideas and technical information on the design of motor vehicles (including electrics).

1050
Doing Business with the Federal Government. (Washington, DC: Economic Growth Series, Northeast-Midwest Institute.) $5.00.
Details the activities of over 60 programs and agencies and offers information on program objectives, forms and average levels of assistance, funding cycles, eligibility criteria and examples of past use.

1051
Earth, Water, Wind, and Sun: Our Energy Alternatives, Daniel S. Halacy, Jr. (New York, NY: Harper and Row Publishers, Inc., 1977.) 186 pages, $8.95.
Describes historical development, current and potential use, advantages and disadvantages, accessibility, economic feasibility, and environmental impact for each of the energy alternatives.

1052
The Easy Path Energy Plan, Vince Taylor. (Cambridge, MA: Union of Concerned Scientists.) $4.50.
Suggests nontraditional methods of securing energy in the future.

1053
The Economics of Nuclear and Coal Power, Saunders Miller, (New York, NY: Praeger Publications, 1976.) $17.50.
Discusses the costs and relative values of coal and nuclear power.

1054
Economics of Solar Energy and Conservation Systems. (Boca Raton, FL: CRC Press, 1980.) $69.95.
Technically treats potential for reducing energy waste in manufacturing and industrial processes and in heating of residential and commercial buildings. Chapters on thermal performance, architectural design, water, space and industrial process heating include many tables and reading references.

1055
Electrolysis-based Hydrogen Storage Systems. (New York, NY: Brookhaven National Laboratory, 1977.) 131 pages, $7.25.
Report describes work completed during 1976 on a program aimed at improvement in the cost and efficiency of electrolytic hydrogen production and development of the metal hydrides techniques for hydrogen storage for stationary and transportation applications. The work on electrolytic hydrogen production includes work on advanced barrier materials for alkaline cells, studies of nickel alloy based and oxide catalysts for oxygen evolution. Also described is work done on hydrogen storage subsystems, hybrids materials development, natural gas supplementation, and hydrogen storage systems analysis.

1056
The Electric Vehicle Components Catalog, Flight Systems, Ed. (Henderson, NC: Mother Earth Bookshelf.) 56 pages, $3.50, paper.
Lists hard-to-find parts such as diodes, power relays, and circuit breakers, as well as lightweight batteries, motors, and test equipment giving part number, description, and price for each. The book also includes supplementary technical information to help in selecting the right motor and other components for an electric vehicle.

1057
Electric Vehicle Mini Guide. (Washington, DC: Electric Vehicle Council.) $5.
Offers a general guide to electric vehicles.

1058
Electric Vehicles: Design and Build Your Own, Michael Hackleman. (Henderson, NC: Mother Earth Bookshelf.) 205 pages, $9.95, paper.
Tells how to design, build, power and license a nonpolluting electric vehicle.

1059
"Energy," **Prime Times**, 1980.
This issue overviews a variety of energy programs that are designed for or involve older Americans. A Home Energy Savers list is provided. For information, write Pat Yuknavage, Managing Editor, ACTION, 806 Connecticut Avenue, NW, Washington, D.C. 20525.

1060
Energy -- Agriculture and Waste Management: Proceedings. (Woburn, MA: Ann Arbor Science Publications, 1977.) $27.50.
Reports on discoveries about recycling waste in agriculture.

1061
Energy: An Environmental and Economic Dilemma. No. 4: Developing an Energy Policy. (East Lansing, MI: Michigan State University, 1977.) 4 pages.
Discusses the need for a change in energy policy and outlook in the U. S. The interdependence of resources and institutions is examined, along with marketing and economic problems. Some preliminary steps toward changing citizens' behavior are considered, and several policy options are mentioned.

1062
Energy and Human Welfare. Volume 3: Human Welfare: The End Use for Power, Barry Commoner, et al, Eds. (New York, NY: MacMillan Publishing Company, 1975.) 185 pages, $15.94.
Presents papers on the social, technological, and environmental problems of electric power consumption.

1063
Energy and Order: A High School Teaching Sequence, Mark Terry, et al. (San Francisco, CA: Friends of the Earth, 1976.) $3.00, junior/ senior high.
Provides a teachers' guide for junior and senior high school courses on energy and its relationship to social issues. Includes classroom experiments and projects designed to encourage students' awareness of energy's importance.

1064
Energy and Power In Your Community, Elizabeth Schaefer, et al. (Fairfax, VA: Institute for Ecological Policies, 1980.) $6., paper.
Illustrates community energy dependence and who controls the energy decision-making process.

1065
Energy and Rural People and Agriculture. (Washington, DC: Rural America, 1975.) 75 cents.
Describes how and why rural people have become dependent upon the petrochemical industry. Suggests means of making better use of existing energy sources and ways of developing alternatives.

1066
Energy and the Elderly. (Washington, DC: House Committee of Energy and Commerce.) Published by National Retired Teachers Association and the American Association of Retired Persons. Discusses the unique hardships the elderly face in coping with rising energy prices. Offers advice on solar heating, energy crisis assistance programs, innovative financing for the elderly. Includes a state-by-state guide to energy information centers for the elderly.

1067
Energy and the Poor. (Butte, MT: National Center for Appropriate Technology, 1980.) $1.50.
Addresses the energy needs of low-income people in the U. S. The plan is based on a diversified strategy involving crisis intervention payments, weatherization of 16 million U. S. homes, installation of solar heating systems, rebuilding and improving energy efficiency in older cars, production of alcohol fuels, and the use of greenhouses, community agriculture and decentralized food production and marketing.

1068
Energy Assistance Programs and Pricing Policies in the Fifty States to Benefit Elderly, Disabled or Low-Income Households: A Working Paper, U.S. Congress. (Washington, D.C., 1979.)
This 326-page document surveys more than 120 state energy assistance programs aimed at helping the elderly, the disabled, and the poor. The information was prepared by The Institute of Urban Studies of the Cleveland State University of Ohio. Available free from the U.S. Senate Special Committee on Aging, Room G-233, Dirksen Senate Office Building, Washington, D.C. 20510.

1069
Energy Controversy: Soft Path Questions and Answers, Amory Lovins. (San Francisco, CA: Friends of the Earth, 1979.) 450 pages, $6.95, paper.
Suggests alternatives to traditional energy practices.

1070
"The Energy Crisis: There is an Easy Answer," J. N. Miller, **Readers's Digest**, June, 1980.
Describes how energy is wasted in the residential, commercial, industrial, and transportation sectors of the U. S. and outlines a plan for energy conservation.

1071
Energy Dictionary, V. Daniel Hunt. (New York, NY: Van Nostrand Reinhold, 1979.) 518 pages, $22.50.
Covers terms used in a wide variety of fields related to energy production and use.

1072
Energy Education Programs: Perspectives for

Community, Junior, and Technical Colleges, Mary Ann Settlemire. (Washington, DC: American Association of Community and Junior Colleges Energy Communications Center.) Free.
Provides overviews of U. S. energy-use history, recent federal legislation, manpower projections, community college roles, program implementation problems, and references to program funding materials.

1073
Energy Efficient Community Planning: A Guide To Saving Energy and Producing Power At The Local Level, James Ridgeway et al. (Emmaus, PA: JG Press, 1979.) $9.95, paper.
Describes several community energy planning projects and reproduces pertinent documents.

1074
Energy-Efficient Construction. (Grand Junction, CO: Grand Juction Public Energy Information Office, 1978.) 16 pages, free.
Provides energy-conserving ideas for homeowners, builders, lenders, planners, and realtors. The brochure contains tips on siting, design, construction (heating/cooling/lighting water systems) and solar energy.

1075
Energy-Environment Sourcebook, J. W. Fowler. (Washington, DC: National Science Teachers Association, 1975.) 279 pages. Presents an overview of the U. S. energy situation up to 1975. Volume I reviews the history of U. S. energy use and the economic and environmental costs of producing and using energy from different sources. Volume II provides scientific and technical background on energy sources and conversion.

1076
Energy: Facing Up to the Problem, Getting Down to Solutions, **National Geographic.** (Washington, DC: National Geographic Magazine, 1981.) 115 pages, $1.45.
Provides a readily-available summary of the energy situation for the layman interested in oil, coal, synfuels, and nuclear, solar, and wind power.

1077
The Energy Fact Book, Richard Dorf. (New York, NY: McGraw-Hill, Inc., 1981.) 277 pages, $15.95.
Offers a general guide to the energy field.

1078
Energy Facts and Figures. (Pullman, WA: Washington State University, 1978.) 18 pages.
Provides a brief overview of the U. S. energy situation and outlook in tabular form, and covers such topics as per-capita energy consumption in the U. S., energy requirements for various farming operations, and energy balance in food production and consumption. Also examined are the yearly use of energy in the home, fuel values of woods, and wind energy.

1079
Energy, Food and You: An Interdisciplinary Curriculum Guide for Elementary Schools. (Seattle, WA: Washington State Office of Environmental Education, 1977.) 292 pages, $5, primary.
Offers ideas, games, activities, and information on renewable and non-renewable energy sources; the energy flows involved in all events -- human and otherwise; energy provided by the sun for all life forms through food chains; overpopulation as an increasing world problem; the hidden energy and environmental costs in every product we make or use; the impact of indirect energy costs on food in relation to the distance, time and processing involved; and the ways we can use energy and resources more efficiently in our food system.

1080
Energy for Rural and Island Communities: Proceedings of the Conference, Held Inverness, Scotland, 22-24 September 1980. (New York, NY: Pergamon Press, 1981.) 253 pages, $45.
Offers a conference report to show both the need and the opportunity for the Highlands and Islands of Scotland, with some activity on a larger scale. The distinctive nature of the conference is to value small scale devel-

opment and to stress realistic application. Self-sufficiency and self-reliance are frequent themes.

1081
Energy for Survival: The Alternative to Extinction, Wilson Clark. (Garden City, NY: Doubleday and Company, 1974.) 652 pages, $4.95.
Discusses past, present, and future energy sources, and provides detailed descriptions of both conventional and renewable sources of energy. A major portion of the book is devoted to solar energy.

1082
Energy for World Agriculture, F. A. Stout et al. (New York, NY: Unipub, 1980.) 286 pages, $16.25.
Puts into perspective energy in relation to the food system to provide guidance in the application of energy to agriculture for those concerned with increasing food supplies, especially in developing countries.

1083
Energy Future: Report of the Energy Project at the Harvard Business School, Robert Stobaugh et al. (New York, NY: Ballantine Books, 1980.) 353 pages, $2.95, paper.
Gives the reader detailed and comprehensive descriptions and statistical data on current U. S. energy supply and demand, and offers policy options and solutions for energy problems. Recommendations center around programs in energy conservation and more use of solar energy.

1084
Energy In America's Future: The Choices Before Us. (Baltimore, MD: John Hopkins University, 1979.) $10.95, paper.
Offers an exhaustive analysis of the energy alternatives open to the United States in the future, covering the impacts of various forms of energy and the political and economic processes involved in making energy choices.

1085
Energy in a Finite World, W. Hafele et al. (Cambridge, MA: Ballinger Publishing Company, 1981.) $14.95.
Summarizes the findings of the study of the global energy system by the Energy Systems Program, Phase I, of the International Institute for Applied Systems Analysis. The goal of the program was to understand and conceptualize by qualitative and quantitative means the global long-range aspects of the energy problem.

1086
Energy in the Global Marketplace, National Science Teachers Association. (Oak Ridge, TN: Technical Information Center, 1978.) senior high.
Offers instructional materials for social science teachers and students, including five lesson plans, worksheets, and handouts suitable for use in Grades 9-11. The emphasis is on the economics of world energy supply and demand.

1087
Energy in Transition 1985 - 2010. Final Report of the Committee on Nuclear and Alternative Energy Systems. (San Francisco, CA: W. H. Freeman and Company, 1980.) 677 pages, $24.95.
Assesses the appropriate roles of nuclear and alternative energy systems in the U. S. energy future, with a particular focus on the period between 1985 and 2010. The study is intended to assist the executive and legislative branches of the government, as well as the American people as a whole, in formulating energy policy.

1088
Energy Policy in Perspective: Today's Problems, Yesterday's Solutions, C. D. Goodwin, Ed. (Washington, DC: Brookings Institution, 1981.) 728 pages, $29.95.
Examines the formulation of energy policy from the end of World War II to 1979. Chapters on each administration explore how problems of policy were perceived, what measures were proposed for their solution, what segments of the economy and society were involved in the policymaking process, what gov-

ernmental machinery was created, and what impeded successful pursuit of policy goals.

1089
Energy Primer: Solar, Water, Wind, and Biofuels, Richard Merrill et al, Eds. (New York, NY: Dell Publishing Company, 1978.) 256 pages, $7.95, paper.
Provides a revised edition of the original 1974 *Primer* that continues to present the ways in which various energy resources can be used in the home. Covers solar water heaters, space heaters and dryers, waterwheels, windmills, wind generators, wood-burning heaters, alcohol stills, and methane digesters to introduce the novice to the field of energy from the sun.

1090
Energy Self-Sufficiency: An Economic Evaluation. (Washington, DC: American Enterprise Institute for Public Policy Research, 1974.) 89 pages, $3.
Seeks to evaluate the state of the U. S. economy under energy self-sufficiency. On the assumption that the U. S. meets all its energy demands from internal sources by 1980, forecasts are made of the prices at which supply and demand will be in equilibrium. The book considers domestic petroleum, natural gas, and coal supplies, nuclear power, synthetic fuels, and the world oil market.

1091
The Energy Show, Anne Garde et al. (Helena, MT: New Western Energy Show, 1978.) 42 pages, $2.75, primary.
Offers a play script, which is appropriate for teaching grade-schoolers about energy in an entertaining way. The minimum cast uses six characters. It includes music for four songs and comments on the set, the stage, and the characters.

1092
Energy Strategies: Toward A Solar Future, Henry W. Kendall et al. (Cambridge, MA: Ballinger Publishing Company, 1980.) 320 pages, $16.50.
Offers a clear appraisal of technology, economic requirements, and environmental impact of renewable and non-renewable energy sources.

1093
Energy Supply and Demand Modeling. 1964 - November, 1981. (Springfield, VA: National Technical Information Service, 1982.) 266 pages, $30.
Offers the use of energy models to estimate the supply and demand of electricity, oil, natural gas, coal, and petroleum products on national, regional, and state levels covering residential, commercial, and industrial supply and demand; the impact of economic conditions on demand; energy use alternatives; and optimal allocation of regionally-produced energy resources.

1094
Energy Systems and Development, J. K. Parikh, (New York, NY: Oxford University Press, 1980.) 152 pages, $15.95.
Analyzes the energy requirements, and the possible sources of future energy supply, in the developing countries of Africa, Asia, and Latin America. It considers both commercial and non-commercial sources of energy supply in an integrated manner.

1095
Energy Teach-ins: Organizing for a Brighter Future, Diane Woolf et al. (Amherst, MA: MASSPIRG, 1977.) 95 pages, $2.
Provides a complete organizing guide specifically focusing on teach-ins that bring up energy issues. It provides a very useful timeline section, followed by in-depth notes on each type of suggested activity. Examples from publicity campaigns are given, including press releases, radio shows, television coverage and how to get petitions signed.

1096
Energy Technology Handbook, Douglas M. Considine. (New York, NY: McGraw-Hill, Inc., 1977.) 1857 pages, $58.50.
Offers a technical handbook setting forth the fundamentals and basic data on today's major energy sources, the latest energy conversion processes, energy transportation and trans-

mission, and the most promising trends in power technology.

1097
Energy Technology: Sources of Power, A. E. Schwaller. (Worcester, MA: Davis Publications, Inc., 1980.) 446 pages.
Surveys energy and its technology. Divided into four sections. Section one includes chapters on energy supplies and systems, energy consumption, and energy terminology. Section two discusses the capital energy resources or those energy resources that are depletable. Section three introduces income energy resources or those resources that are considered non-depletable. Section four discusses the concepts of energy conversion, energy storage, and energy conservation technology.

1098
Energy: The Created Crisis, Anthony C. Sutton. (New York, NY: Books in Focus, 1979.) 175 pages, $10.95.
Argues the energy industry's thesis that our present energy shortages are the result of over-regulation by Washington. A company's-eye view.

1099
Energy: The New Look, Margaret Oldroyd Hyde. (New York, NY: McGraw-Hill Book Company, 1981.) 128 pages, $7.95, Grades 7-9.
Provides a simplified discussion of alternative sources of energy such as plants, windmills, coal, and the sun. It is designed for younger science students.

1100
Energy: The Next Twenty Years, Hans Landsberg, Ed. (Cambridge, MA: Ballinger, Publishing Company, 1979.) $9.95, paper.
Examines future energy demand, conservation, regulation, oil imports, global resources, trends, policies, coal potential, nuclear and solar as alternatives, decision making and role of science and technology.

1101
Energy: Use, Conservation, and Supply, P. Abelson, Ed. (Washington, DC: American Association for the Advancement of Science, 1974.) 150 pages.
Contains a collection of articles that provide in-depth technical information on developing technologies in coal, gas, oil shale, nuclear, geothermal, solar, wind, water, methanol, and hydroelectric power.

1102
Energy Use in the Food Systems, Federal Energy Administration. (Washington, DC: U. S. Government Printing Office, 1976.) 130 pages, $2.65.
Traces energy used in production of food.

1103
Energy, Vulnerability, and War, Wilson Clark et al. (Springfield, VA: National Technical Information Service.) 350 pages, $24.50.
Offers report from the Federal Emergency Management Agency that examines the weaknesses of this country's current energy production and storage systems in terms of national defense and preparedness.

1104
Energy/War: Breaking the Nuclear Link, A. B. Lovins et al. (San Francisco, CA: Friends of the Earth, 1980.) 161 pages, $10.
Explores the argument that a new view of the energy problem, seeking to meet energy needs at least cost, can offer viable alternatives to the unique mixture of imported oil, nuclear power, and nuclear bombs.

1105
Energy We Can Live With, Daniel Wallace, Ed. (Emmaus, PA: Rodale Press, 1976.) 168 pages, $3.95, paper.
Analyzes the potential and applications of most alternative energy sources: solar, wind, and methane gas; and explores some obscure and intriguing sources as well, like alcohol, compost, and pedal power.

1106
The Engineer's Companion, Mott Sounders.

(New York, NY: John Wiley and Sons, Inc., 1966.) $21.
Provides a technical, desktop reference guide for engineers.

1107
The Enigma of Soviet Petroleum: Half-Full or Half-Empty, Marshall I. Goldman. (Winchester, MA: Allen and Unwin, Inc., 1981.) 214 pages, $7.95, paper.
Speculates on Soviet energy power and potential. U. S. and Soviet differences in both capability and development philosophies are examined for most major energy sources. The use of thermal power, coal, and nuclear power is discussed in depth, with some information not found in many other sources, such as descriptions of equipment, operations, and processes. The role of some new energy sources -- e.g., geothermal, tidal, and solar -- is related to overall Soviet energy planning.

1108
Essays on Food and Energy, Howard Community College and Foundation for Self-Sufficiency. (Catonsville, MD: Foundation for Self-Sufficiency, 1977.) 184 pages.
Thoughtful views on acquiring food with nontraditional energy resources.

1109
Financing Energy Investment at Colleges. (Washington, DC: Higher Education Energy Task Force.)
Offers practical sources for college administrators seeking funding to make energy-conservation investments.

1110
Finding Funding for Local Energy Projects: A Neophyte's Guide. (Washington, DC: Citizens' Energy Project, 1976.) 10 pages, $2.50.
Starts off with tips on how to select the best funding sources for your particular project, and how to stay on top of getting an answer to your request once it has been submitted. The mimeographed packet describes a number of federal funding sources and requirements of specific programs they sponsor.

1111
Food, Energy and Society, D. Pimentel et al. (London, England: Edward Arnold, 1979.) 165 pages, $10.95.
Explores the interdependence of food and energy, and their impacts on society. It discusses energy and its relationship to society, manpower, and food production, and describes early agriculture emphasizing hunter-gatherers and early livestock systems. Energy use is detailed in livestock production; grain and legume production; fruit, vegetable, and forage production; and fish production. The book also discusses food processing, packaging, and preparation; transport of agricultural supplies; and future food needs.

1112
From the Ground Up, John N. Cole et al. (Waltham, MA: Little, Brown and Company, 1976.) 244 pages, $7.95.
Provides information on wood, nails, foundations, framing, heating, wiring, plumbing, light, and sound to stimulate readers to build their own homes "from the ground up."

1113
Future Energy Alternatives: Long-Range Energy Prospects for America and the World, R. Meador. (Ann Arbor, MI: Ann Arbor Science Publishers, Inc., 1978.) 197 pages, $9.95.
Examines possible future energy sources with emphasis on technical feasibility, economic viability, and environmental impact. Diverse energy resources described and analyzed include fusion, fission, coal, hydrogen, geothermal, solar, tidal, hydro, ocean thermal, wind and biomass. Also, environmental effects of energy production are discussed along with aspects of future energy usage based on several scenarios.

1114
Future Strategies For Energy Development: A Question of Scale. (Oak Ridge, TN: Oak Ridge Associated Universities, 1977.) $9, paper.
Addresses the debate on the best method of meeting society's needs for energy.

1115
Getting into Print. (Washington, DC, League of Women Voters, 1974.) 4 pages, 25 cents.
Provides a how-to for writing a press release, holding a press conference, and ensuring press coverage for your group's activities.

1116
The Global 2000 Report to the President, The Council on Environmental Quality et al. (Charlottesville, VA: Blue Angel, Inc., 1981.)
Offers the most complete compilation of environmental data available. A report on the predicted state of the earth in the year 2000.

1117
Goodbye to the Flush Toilet, Carol Hupping Stoner, Ed. (Emmaus, PA: Rodale Press.) 296 pages, $8.95, paper.
Presents specific, workable alternatives to the conventional flush toilet, the greatest waster of water in the home. It tells what is wrong with our present waste disposal systems and outlines the principles of composting, giving guidelines and safety precautions for recycling human wastes.

1118
The Good News About Energy, Council on Environmental Quality. (Washington, DC: U. S. Government Printing Office, 1979.)
Provides an optimistic view of the current energy situation.

1119
Grand Junction Future Power, Barbe Chambliss et al. (Denver, CO: ROMCOE, 1978.) 59 pages, $3.75.
Describes a Grand Junction, Colorado project, whose purpose was to design and direct a program enabling communities to create their energy futures. This report describes the activities of this program from June 1977 through March 1978 including 1) committee selection, 2) organization and planning of an energy seminar, and 3) organization and planning of an energy fair.

1120
The Grass Roots Fundraising Book: How To Raise Money In Your Community, Joan Flanagan. (Chicago, IL: Swallow Press, 1977.) 219 pages, $5.25.
Demonstrates how concerned citizens can use their talents and knowledge to put together successful and easy to plan fundraising activities. The practical advice it provides on the nuts and bolts of organizing special events makes this a unique and valuable resource tool for the local organization.

1121
The Graying of Working America, Harold L. Sheppard et al. (New York, NY: MacMillan Publishing Company, 1977.)
This book projects a variety of possibilities concerning the cost implications of the steadily increasing population of elder Americans. The authors say that the future costs of energy will have a profound impact on policy choices concerning the aging in the next 20 years. Can be ordered through book stores at $4.95 for a paperback copy.

1122
Handbook of Special Events for Nonprofit Organizations: Tested Ideas for Fund Raising and Public Relations, Edwin R. Leibert et al. (Chicago, IL: Follett Publishing Company, 1972.) 224 pages, $13.
Offers a practical guidebook to help volunteers learn the necessary steps and strategies to organize a successful event and aid staff members in using volunteer work to its fullest potential.

1123
The Health Hazards of Not Going Nuclear, P. Beckmann. (Boulder, CO: Golem Press, 1976.) 190 pages, $5.95.
Examines controversial aspects of nuclear power usage with emphasis on environmental, economic, political, and social issues affecting the growth within the nuclear power industry.

1124
Health Implications of New Energy Technolo-

gies, W. N. Rom et al, Eds. (Ann Arbor, MI: Ann Arbor Science Publishers, Inc./The Butterworth Group, 1980.) 785 pages, $40.
Includes a series of papers describing the health hazards associated with nuclear, coal, oil shale, geothermal, solar, energy transmission, and energy development. Topics include lung pathology and exposure to Radon daughters; health effects of ionizing radiation; mortality patterns of coal miners; health implications of coal liquefaction and coal gasification technologies; coal combustion, ambient air pollution, and the lung; cutaneous effects of shale oil; human health implications of geothermal energy in Utah; potential health hazards in the manufacture of photovoltaic solar cells; and electrical wiring configurations and childhood cancer.

1125
Heating, Ventilating, and Air Conditioning Library, James E. Brumbaugh. (Indianapolis, IN: Bobbs-Merrill Company,1976.) $22.50.
Covers heating fundamentals, furnaces, boilers, boiler conversions, oil, gas, and coal burners, controls, ducts, piping, valves, and radiant heating, water heaters, ventilation, air conditioning, heat pumps, and air cleaners.

1126
Home Energy for the Eighties, Ralph Wolfe et al. (Charlotte, VT: Garden Way Publishing Company, 1979.) $10.95.
Provides a good balance of theory and application on energy conservation and resources.

1127
Home Energy How-To, A. J. Hand. (New York, NY: Harper and Row, 1977.) 258 pages, $10.95.
Offers a complete guide to saving and producing energy in the home; includes information on energy conservation, biofuels, and solar, wind, wood and hydroelectric energy.

1128
Home Improvements for Conservation and Solar Energy, F. Hickok. (St. Petersburg, FL: Hour House, 1977.) 115 pages, $6.80.
Provides a complete discussion of energy-saving, structural changes in existing houses.

1129
The Homeowner's Guide to Coalburning Stoves and Furnaces, James W. Morrison. (New York, NY: Arco Publishing, Inc.,1981.)
Discusses the important factors one should consider before buying and installing a coal-burning stove or furnace.

1130
Hot Water, Scott Morgan et al. (Santa Fe, NM: New Mexico Solar Energy Association, 1975.) 31 pages, $2.50.
Offers information on flat plate water heating and picking up extra heat from coal and woodburning flues. Materials listed and construction and plumbing directions (which assume the reader's technical ability) are included for three types of collector plates, an absorber box, both pressurized and non-pressurized storage tanks, and copper heat exchange coils for insertion in coal and woodburning flues.

1131
How Safe Is Nuclear Energy?, Sir Alan Cottrell. (Exeter, NH: Heinemann Educational Books, Inc., 1981.) 135 pages, $6, paper.
Provides a primer on nuclear energy for the general public, details the various defenses that have been devised to keep nuclear reactors from "running away," to limit reactor emissions of radiation to a minimum, and to prevent contamination of the environment.

1132
How to Challenge Your Local Electric Utility. (Washington, DC: Environmental Action Foundation, Utility Clearinghouse, 1974.) $3.50.
Explains how utility rates are set, how utilities operate and ways citizens can challenge rate hikes, expansion plans, rate structures, etc.

1133
How To Convert To An Electric Car, Ted Lucas et al. (Henderson, NC: Mother Earth

Bookshelf, 1980.) 128 pages, $5.95.
Tells how almost any compact car can be converted to a reliable electric vehicle for about $1,500. Numerous photographs and line drawings.

1134
How To Convert Your Vehicle To Propane, Robert Hoffman et al. (Henderson, NC: Mother Earth Bookshelf.) 25 pages, $7.50, paper.
Provides a technical report on converting vehicles to liquefied petroleum gas (LP or propane).

1135
How To Design An Independent Power System, Terrance D. Paul. (Henderson, NC: Mother Earth Bookshelf.) 126 pages, $6.95, paper.
Provides methods of supplying energy needs with nontraditional sources.

1136
Introduction To Appropriate Technology: Toward A Simpler Life Style. R.J. Congdon, Ed. (Emmaus, PA: Rodale Press, 1977.) 224 pages, $9.95, paper.
Offers a practical introduction to what could be the technology of the future; the story of appropriate technology from its beginning to the present and some possibilities for the future.

1137
It's In Your Power: The Concerned Energy Consumer's Survival Kit, S. Diamond et al. (New York, NY: Rawson Associates Publishers, Inc., 1978.) 272 pages, $8.95.
Examines the energy crisis, energy-conservation techniques, alternative energies, and strategies for community action.

1138
The Last Chance Energy Book, Owen Phillips. (Baltimore, MD: Johns Hopkins University, 1979.) 160 pages, $9.95.
Gives a history of our current problem and explores both standard and unfamiliar alternatives. Author's prescription is conservation combined with rapid development of coal-based alternative fuels.

1139
Leadership is Everybody's Business: A Practical Guide for Volunteer Membership Groups, John Lawson et al. (San Luis Obispo, CA: Impact Publishers, Inc., 1976.) 217 pages, $5.25.
Offers practical help for the new member, aspiring officer, and overloaded leaders, as a basic guide for voluntary community groups, church programs, youth organizations, service clubs, and college and university activities programs. It includes handy, readable "how-to" methods for conducting meetings, creating agendas, preparing minutes, adding interest to your discussions and activities, developing effective committees, and overcoming group apathy and hesitation.

1140
Life After Nuclear War: The Economic and Social Impacts of Nuclear Attacks on the U. S., Arthur Katz. (Cambridge, MA: Ballinger Publishing Company, 1982.) 452 pages, $14.95, paper.
Appraises the effects of a nuclear attack, with a foreward by Senator William Proxmire.

1141
Lifestyle Index, Anne Pierotti et al. (Washington, DC: Citizens' Energy Project, 1977.) 32 pages, $2.25.
Traces where energy comes from and where it goes to enable a person to pinpoint energy uses. Energy use is divided into five areas: food, housing, clothing and personal care, transportation, and social and government services.

1142
Limits To Growth: A Report for the Club of Rome's Project on the Predicament of Mankind, D. H. Meadows et al. (New York, NY: Universe Books, Inc., 1974.) $3.50, paper.
Addresses global energy usage and future demands with a somber view.

1143
Low-Income Energy Assistance Programs, A Profile of Need and Policy Options, (Washington, DC: U.S. Department of Energy, 1980.) Free.
This report, produced by the U.S. Department of Energy's Fuel Oil Marketing Committee, presents a detailed analysis of the impact of higher energy prices on low-income people, including the elderly, and discusses possible solutions.

1144
Making the Most of Energy in Real Estate: Relevant Energy Facts for Real Estate Developers, Builders, Lenders, Appraisers, and Brokers. (Washington, DC: U. S. Department of Energy, 1980.) Various paging. Covers such topics as government energy policies, energy conservation in real estate, thermal comfort and design principles, measuring and improving energy efficiency in existing structures, environmental control systems, solar energy, and investment analysis.

1145
Man, Energy, Society, E. F. Cook. (San Francisco, CA: W. H. Freeman and Company, 1976.) 478 pages, $11, paper.
Presents a geographic view of energy in order to provide the background information necessary for an understanding of contemporary energy problems. In addition to locating and classifying people and resources, it outlines the history of man's use of energy and the consequent effects on social fabric and lifestyle.

1146
Mickey Mouse and Goofy Explore Energy Conservation, Walt Disney Educational Media Company. (Houston, TX: EXXON, U. S. A., 1978.) 34 pages.
Uses comic characters to teach ways to save energy in the home while doing everyday tasks and explores the basics of solar, wind, and geothermal power.

1147
Mobility in Rural America. (Washington, DC: Rural America, 1975.) $1.
Outlines need for adequate transportation system in rural areas. Probes some federal experiments in rural transportation.

1148
Money-Saving Strategies For The Owner/Builder, Robert L. Roy. (Henderson, NC: Mother Earth Bookshelf, 1981.) 160 pages, $6.95.
Offers a system of personal economic strategies for building your own home by using inexpensive materials, labor-saving methods, energy-efficient designs, and such unconventional options as the round house, the underground house, and the homestead.

1149
Money-Saving Guide to Energy in the Home. (Brooklyn, NY: Consumer Reports Books.) $9.75.
Suggests practical methods of saving energy.

1150
Montclair Future Power: A Program to Enable a Community to Create Its Own Energy Future. (Denver, CO: ROMCOE, 1978.) 58 pages, $3.75.
Describes Montclair's implementation of Future Power in the community, including an energy fair, energy workshop, and school greenhouse construction project. The report includes a critique of the Future Power project in Montclair and an appendix which includes copies of flyers, questionnaires, newspaper articles, and schedules.

1151
National Energy Profiles, Kenneth R. Stunkel, Ed. (New York, NY: Praeger Publications, 1981.) 413 pages, $18.95.
Provides energy profiles of eight countries: the United States, the USSR, Japan, Mexico, China, Brazil, Nigeria, and Taiwan. The profiles describe historical patterns of energy consumption in each country, current domestic strategies for achieving self-sufficiency, import-export considerations, and policies aimed at reducing environmental costs arising from any energy development.

1152
A New Prosperity: Building A Sustainable Energy Future; the SERI Solar/Conservation Study. (Andover, MA: Brick House Publishing Company, 1981.) 454 pages, $19.95, paper.
Estimates the nation's energy future with optimism if its proposals are followed, the Solar Energy Research Institute (SERI) claims. U. S. energy use would actually decrease by the year 2000 and oil imports would be eliminated. Energy-use reductions would come from increased energy efficiency and the use of solar and other renewable resources. And all sectors of the economy are shown how to save: building owners, industry, transportation, and utilities.

1153
The Next Whole Earth Catalog, Stuart Brand, Ed. (New York, NY: Random House, Inc. $12.50.
Offers sources of alternate energy supplies and equipment.

1154
1980 Annual Report to Congress: Energy Information Administration. (Washington, DC: U.S. Department of Energy, 1981.) $20.
Report on use of various energy resources, year by year.

1155
1981-1982 Teacher's Guide to Free Educational Resources, Gulf States Utilities. (Conroe, TX: Gulf State Utilities, 1981.) 11 pages, free.
Provides resources about energy -- in all of its forms. Subjects covered include safety, power generation, principles of electricity, economics, environment, ecology, and energy education. Each item listed has a suggested grade level and subject topic.

1156
The 1982 Users Guide to Government Energy Programs. (Washington, DC: Economic Growth Series, Northeast-Midwest Institute.) $7.50.
Details the activities of over 60 programs and agencies. Supplementary sections of the energy guide discuss conservation efforts and urban, rural and community energy strategies, and provide comprehensive listings of government and non-government information sources.

1157
The 1982 Users Guide to Government Resources for Economic Development. (Washington, DC: Economic Growth Series, Northeast-Midwest Institute.) $7.50.
Details the activities of over 60 programs and agencies and offers information on program objectives, forms and average levels of assistance, funding cycles, eligibility criteria and examples of past use.

1158
99 Ways to a Simple Lifestyle, Albert Fritsch, et al. (Washington, DC: Citizens' Energy Project, 1976.) 324 pages, $3.50.
Suggests alternate methods of supplying energy needs.

1159
No Heat, No Rent: An Urban Solar and Energy Conservation Manual. (New York, NY: Energy Task Force, 1977.) Free.
Offers guide to developing, installing and maintaining a tenant-owned solar hot water system for tenement buildings. Also serves as an introduction to energy conservation techniques for use in such buildings.

1160
Non-Nuclear Futures: The Case For An Ethical Energy Strategy, Amory Lovins, et al. (Cambridge, MA: Ballinger Publishing Company, 1975.) $6.95, paper.
Suggests ways to meet our energy needs without reliance on nuclear energy.

1161
No Nukes: Everyone's Guide To Nuclear Power, Anna Gyorgy et al. (Boston, MA: South End Press, 1979.) $8 , paper.
Opposes use of nuclear power.

1162
The Nuclear Barons, Peter Pringle et al. (New York, NY: Holt, Rinehart and Winston, Inc.) 700 pages, $16.95.
Insists that the rise of nuclear energy during the last four decades can be understood only if viewed in a global perspective. Authors make the intrinsic connection between nuclear power and nuclear weapons the underlying theme of the book.

1163
Nuclear Madness: What You Can Do, Helen Caldicott. (Brookline, MA: Autumn Press, 1979.) $3.95, paper.
Opposes nuclear power.

1164
Nuclear Power: Issues and Choices, Nuclear Energy Policy Study Group, Ford Foundation. (Cambridge, MA: Ballinger Publishing Company, 1977.) $8.95, paper.
Addresses the debate on nuclear power.

1165
Nuclear Power Issue: A Guide to Who's Doing What in the U.S. and Abroad, Kimberly J. Muller, Ed. (Claremont, CA: California Institute of Public Affairs, 1981.) 106 pages, $18.50.
Helps citizens locate information on nuclear power, and covers all sides of the nuclear power issue. References include all levels of government, professional, citizen, research and educational organizations, etc.

1166
Oil Burners, Edwin M. Field. (Indianapolis, IN: Bobbs-Merrill Company, 1977.) 301 pages, $6.95.
Provides information on all types of oil burners and associated equipment. Discusses blowers, ignition transformers, electrodes, nozzles, fuel pumps, filters and controls. Installation and maintenance are stressed.

1167
Our Energy: Regaining Control, Marc H. Ross et al. (New York, NY: McGraw-Hill Book Company, 1981.) 368 pages, $16.95.
Questions the idea that America can produce its way out of the crisis. Instead of approaching the problem from the supply side, they call for a strategy that would look at the ways energy is used rather than at the available supply.

1168
Owner-Builder And The Code, Ken Kern et al. (Oakhurst, CA: Owner-Builder Publications, 1976.) $5.
Notes how owner-builders have dealt with problems of site design, financing, and the bureaucratic tangle of codes and standards. One section addresses the problems of the typical waste removal system.

1169
The Owner-Built Home, Ken Kern, Ed. (Totowa, NJ: Charles Scribner's Sons, 1975.) 374 pages, $6.95.
Presents a "How-to-think-it" book for people who want to build their own low-cost home. It includes illustrations, bibliography, and index.

1170
Patents in Energy: Department of Energy Patents Available For Licensing. (Oak Ridge, TN: Technical Information Center.) $14.
Lists patents granted in the field of energy.

1171
Pathway to Energy Sufficiency: The 2050 Study, John Steinhart et al. (San Francisco, CA: Friends of the Earth, 1979.) 96 pages, $4.95, paper.
Presents a plan based more on social logistics than on technological changes and calls for cooperation in energy use from the residential, commercial, and other sectors.

1172
Permaculture I and II, Bill Mallison. (Jamestown, MO: Permaculture Society.) $21.54.
Addresses permanent agriculture techniques and theory, interrelating ecosystem management for the homesteader. A new way of looking at food production, shelter, and

waste management, etc.

1173
The People of Three Mile Island, Robert Del Tridici. (New York, NY: Charles Scribner's Sons, 1980.) 127 pages, $7.95, paper.
Offers interviews with 37 residents and officials about what happened at Three Mile Island. What recurs throughout the interviews are the people's expressions of fear, frustration, and anger with the utility company and the officials.

1174
People Heaters: A People's Guide To Keeping Warm In Winter, Alexis Parks. (Andover, MA: Brick House Publishing Company, 1981.) 120 pages, $4.95, paper.
Offers sensible methods to keep warm while saving energy and money. The author goes into great detail comparing wood heating stoves and wood cooking stoves currently on the market.

1175
People Power; What Communities Are Doing to Counter Inflation, Mary S. Gordon, Ed. (Washington, DC: U. S. Office of Consumer Affairs.) 400 pages, free.
A general guide to government resources in the field of energy and other consumer interests.

1176
Plants, People and Environmental Quality, U. S. Department of the Interior. (Washington, DC: U. S. Government Printing Office, 1972.)
Addresses the debate on living with or against natural processes.

1177
The Politics of Energy, Barry Commoner. (Westminister, MD: Random House Publishing Company, 1979.) 100 pages, $4.95, paper.
Analyzes solar energy and breeder-based nuclear power – the two renewable sources of energy that can provide options for satisfying U. S. energy requirements. Arguments presented strongly support the solar option and are well-documented with current examples.

1178
The Politics of the Solar Age: Alternatives to Economics, Hazel Henderson. (Garden City, NY: Doubleday and Company, 1981.) 433 pages, $8.95.
Suggests a reconceptualization; needed are flexible systems approaches to social and economic problems, based on the principles of cybernetics, ecology, thermodynamics and systems management. The answer is neither endless growth or "steady state" but an economic system that manages and corrects itself in lively disequilibrium.

1179
"The Poor, The Elderly, and The Rising Cost of Energy, "Joe D. Pace, **Public Utilities Fortnightly,** June 5, 1975.
Discusses lifeline rates, fuel stamps, and other measures proposed to ease the impact of high energy costs for the poor and the elderly.

1180
Potential Effects of a National Mandatory Deposit on Beverage Containers, Comptroller General of the United States. (Washington, DC: U. S. Government Printing Office, 1977.) 91 pages.
Participates in the debate over encouraging recycling by a mandatory deposit fee on drink containers.

1181
Potential Energy: An Analysis of World Energy Technology, Michael Kenward. (New Rochelle, NY: Cambridge University Press, 1976.) 227 pages, $7.95.
Reviews the state of technology in several energy resource areas (coal, oil, gas, nuclear, geothermal, and tidal power) as a backdrop for determining how money should be spent in future research and development of energy sources.

1182
Power and Light: Political Strategies for

the Solar Transition, Richard E. Morgan et al. (New York, NY: Seabury Press, 1981.) 210 pages, $6.95, paper.
Shows why and how the American public needs to get involved in planning for our energy needs of the future. The government's synfuel program is compared to its nuclear program, and neither comes off as having any real long-term potential. The authors suggest some needed changes in the regulation of energy utilities to allow for the transition to a solar economy.

1183
Powerline: The First Battle of America's Energy War, Barry M. Casper et al. (Amherst, MA: University of Massachusetts Press, 1981.) 336 pages, $7.95, paper.
Tells how Minnesota farmers united in 1973 to protest the construction of gigantic powerline through their land, and includes interviews with disgruntled farmers, local politicans, and other rural residents.

1184
Power Plant Escalation: Nuclear and Coal Capital Costs and Economics. (New York, NY: Komanoff Energy Associates.) $85, summary, $3.
Compares the economics in the use of coal and nuclear power.

1185
Preparing A Proposal for a Private Foundation: Some How-To-Do-It Suggestions, Ken Bossong. (Washington, DC: Citizens' Energy Project, 1978.) 5 pages, $2.
Gives the basics on approaching foundations for funding. It also includes a list of foundations interested in energy issues.

1186
Present Value: Constructing A Sustainable Future, Gigi Coe. (San Francisco, CA: Friends of the Earth, 1980.) 81 pages, $5.95.
Shows how appropriate technology, notably solar energy systems, has been successfully used in a variety of domestic and commercial buildings.

1187
A Proposed Standby Plan for Gasoline Rationing. (Washington, DC: U. S. Department of Energy, 1978.) 6 pages.
Outlines a gasoline rationing plan proposed by the U. S. Department of Energy. It described the manner in which ration checks would be issued, a system of ration reserves and banking, and implementation of the plan.

1188
Radioactive Waste: Politics, Technology, and Risk, Ronnie D. Lipschutz. (Cambridge, MA: Ballinger Publishing Company, 1980.) 247 pages, $14.50.
Reports on the various stages of the nuclear fuel cycle and discusses past and present practices.

1189
Radwaste, Fred C. Shapiro. (New York, NY: Random House, 1981.) 282 pages, $14.50.
Deals with the radioactive waste problem.

1190
Rays of Hope: The Transition To a Post-Petroleum World, Denis Hayes. (New York, NY: W. W. Norton and Company, 1977.) 240 pages, $3.95.
Focuses attention on the energy crisis and attempts to put it in proper historical and global perspective: the world finds itself in the twilight of the oil age and on the brink of a major energy transition. Although the transition is technological, it will have a profound impact on social structures, economic systems, and political entities.

1191
Reaching Up, Reaching Out: A Guide to Organizing Local Solar Events. (Golden, CO: Solar Energy Research Institute, 1979.) 208 pages, $8.50.
Presents 15 case studies of successful solar and energy activities, including information on the organizing process and suggestions on varying the event to suit local needs.

1192
Reader's Digest Complete Do-It-Yourself

Manual. (Pleasantville, NY: The Reader's Digest Association, 1973.)
Guides reader to general home repair. Illustrations, diagrams, and photographs show step-by-step methods of home repair. This book makes it easy even for the do-it-yourselfer with little home repair experience. There is an excellent section on window repair.

1193
Regional Guidelines for Building Passive Energy-conserving Homes, American Institute of Architects Research Corporation. (Washington, DC: U. S. Department of Housing and Urban Development, Office of Policy Development and Research, 1978.) 312 pages, $5.25.
Divides the United States into 13 areas representing localized design descriptions of climatic liabilities and assets, and offers general building principles to aid in energy conservation, including illustrated examples on applying the principles.

1194
Report to the Congress of the United States. Magnetohydrodynamics - A Promising Technology for Efficiently Generating Electricity from Coal. (Washington, DC: Comptroller General of the United States, 1980.) 50 pages.
Discusses the status, potential, and alternative federal strategies for development of magnetohydrodynamics (MHD). It discusses the problems and issues concerning the current federal MHD test program, compares the advantages and disadvantages of alternative MHD pilot plants, and makes recommendations concerning MHD user involvement in the development program.

1195
Resettling America: Energy, Ecology and Community, Gary J. Coates, Ed. (Washington, DC: Solar Lobby.) $15.95.
Offers 22 essays that explore the human side of solar energy. Rooted in the theories of Mumford, Vromm, Schumacher, and Bateson, these articles are concerned not with the current emphasis on self-sufficiency but on using appropriate technology to unite and to strengthen communities.

1196
Running On Empty: The Future of the Automobile in an Oil-Short World, Lester R. Brown et al. (New York, NY: W.W. Norton and Company, 1979.) 118 pages, $7.95.
Discusses the total picture for petroleum-based energy with conclusions that the day of the automobile is over, and a reshaping of American, and world, society is an inevitable consequence.

1197
Rural Public Transportation. (Washington, DC: Rural America, 1977.) 30 cents.
Probes transportation problems of rural people. Suggests measures that could bring relief in addition to federal efforts.

1198
Rural Transportation. (Washington, DC: Rural America, 1979.) $2.
Contains a proposal for solving rural transportation problems. Includes policy framework for a "rural transportation administration."

1199
Saving Home Energy: A Handbook for Organizing a Hands-On Energy Conservation and Passive Solar Energy Workshop, Rachel Snyder, Ed. (Denver, CO: Colorado Solar Energy Association, 1977.) 58 pages, $4.70.
Documents the plans, program agenda, and activities the Colorado Solar Energy Association used in putting on its Saving Home Energy workshop in February 1977. Includes useful tips on acquiring financing, instructors, and publicity, and detailed descriptions of the four sessions.

1200
Securing America's Energy Future. (Springfield, VA: National Technical Information Service.) $5.
Contains President Reagan's National Energy Plan that emphasizes energy production, nuclear and synthetic fuels, and centralized

power plants built by large corporations.

1201
Securing U. S. Energy Supplies: The Private Sector as an Instrument of Public Policy, William G. Prast. (Lexington, MA: D.C. Heath Company, 1981.) 111 pages, $15.95.
Points out that the energy crisis is not only one of finding adequate supplies, but also one of securing supplies that are both reliable and environmentally safe. Suggests a program of public and private involvement to increase domestic production while at the same time making environmental factors an integral part of the decision making.

1202
The Self-Sufficient House, Frank Coffee. (New York, NY: Holt Rinehart and Winston, Inc., 1981.) $9.95, paper.
Contains basic ideas for the person who wishes to save money and energy and have a self-sufficient home. One learns about groundwater, sewage systems, insulation, passive and active solar energy, and how best to use other forms of energy.

1203
Simplified Energy Design Economics: Principles of Economics Applied to Energy Conversion and Solar Energy Investments in Buildings. (Washington, DC: U. S. Government Printing Office.)
Summarizes life cycle costs, discounted paybacks, rates of return and other arcane terms frequently used when evaluating energy economics.

1204
Small is Beautiful: Economics as if People Mattered, E. F. Schumacher. (New York, NY: Harper and Row Publishers, Inc., 1973.) 390 pages, $8.95.
Supports the viewpoint of solar advocates and people seeking alternative lifestyles, communal households, and do-it-yourself techniques, by presenting a philosophical view of economics which rejects "bigness" and its inefficiencies, and lays the foundation to support decentralized economic decision-making.

1205
Small Is Possible, George McRobie. (New York, NY: Harper and Row, Publishers, 1981.) 336 pages, $4.95, paper.
Tells of the many efforts to implement scaled-down technologies in the Third World, Britain, Canada, and the United States.

1206
Soft Energy Paths: Toward a Durable Peace, Amory B. Lovins. (Cambridge, MA: Ballinger Publishing Company, 1977.) 256 pages, $6.95.
Debates the choices society should be making regarding energy technology and economy, and points out the distinction between two alternative energy futures, referred to as a soft path and a hard path, which society could pursue. A soft path would rely on decentralized energy sources, matching appropriate energy sources to specific end uses; the hard path would rely on centralized energy sources, making no distinction regarding whether the energy source is the most appropriate for a given end use.

1207
The Solar Age Resource Book, Martin Phillips, Ed. (Raleigh, NC: Everest House, 1979.) 242 pages, $9.95.
Offers buyers' guides for home users of alternative energy products -- wood stoves, solar heating and cooling systems, windmills, etc.

1208
Solar Groundhouse: The Low-cost Solar Home, Nik Wistinghausen. (Henderson, NC: Mother Earth Bookshelf.) 45 pages, $3.50, paper.
Combines information about the best of two housing technologies: solar energy and underground construction, with floor plans and illustrations.

1209
Something Old, Something New, Something Borrowed, Something Due, Judy

Smith. (Butte, MT: National Center for Appropriate Technology, 1978.) 38 pages, $75.
Contains several short articles covering women and appropriate technology. Noting that women historically created appropriate technologies without receiving social validation for their efforts, the articles explore the role of women in the creation of alternative technological futures.

1210
Soviet Energy Technologies: Planning, Policy, Research and Development, Robert W. Campbell. (Bloomington, IN: Indiana University Press, 1981.) 228 pages, $22.50.
Speculates on Soviet energy power and potential, and details current Soviet energy capability and emphasizes the research and development philosophy that may have helped or hindered the development of various energy sectors within the Soviet Union. United States and Soviet differences in both capability and development philosophies are examined for most major energy sources.

1211
Sprout Cabinet. (Henderson, NC: Mother Earth Bookshelf.) $6.
Tells how to raise vitamin-rich sprouts in a compact sprouting cabinet. Plans are fully illustrated, detailed, and easy to follow.

1212
Starting Your Own Energy Business, A. Bendavid-Val et al. (Washington, DC: Institute for Local Self-Reliance, 1978.) 45 pages, $5.
Studies four industries (retrofit analysis service, storm windows and doors, cellulose insulation, and solar heated domestic hot water systems) from the perspective of establishing small, local businesses to enhance community economic development.

1213
Sun-Earth, Richard L. Crowther. (New York, NY: Charles Scribner's Sons, 1978.) 232 pages, $8.95.
Presents a variety of ways in which the natural environment affects buildings and shows how to use this to the best advantage.

1214
Superhouse, Don Metz. (Charlotte, VT: Garden Way Publishing Company, 1981.) 224 pages, $12.95, paper.
Uses passive solar, super insulation, earth-sheltering and double envelope concepts, in a design for New England, which will require less than two cords of wood for winter heating.

1215
Three Mile Island, Mark Stephens. (New York, NY: Random House, 1981.) 243 pages, $11.95.
Offers chronicle of what happened during that week in late March and describes what was happening inside the reactor itself; how TMI, the NRC, and other public officials responded; and how the press tries to report the facts.

1216
Time Bomb: Understanding the Threat of Nuclear Power, Corinne Browne et al. (New York, NY: Morrow and Company, 1981.) 220 pages, $11.95.
Attempts to alert readers to the menace of nuclear power. The frame work of the book is a history of nuclear power from the Manhattan Project to the present, with an emphasis on accidents.

1217
The Toilet Papers, Sim Van der Ryn. (Santa Barbara, CA: Capra Press.) $3.95.
Offers guide to making your own composting toilet.

1218
Total Warmth, Geri Harrington et al. (New York, NY: Macmillan Publishing Company, 1981.) 192 pages, $8.95, paper.
Covers the subject of warmth in the areas of equipment, fuel, and resource people. Evaluations are given for home heating systems, types of cooking and woodburning stoves, window coverings, and other insulating materials.

1219
Transformation of Transportation. (Sacramento, CA: California Office of Appropriate Technology, 1981.) Free.
Addresses the issue of congestion from cars and the question "Will we ever get rid of the private car?" Not likely, but there are ways to make its presence manageable.

1220
U.S. Agri-business and the Energy-rich Nations: Partners for Agricultural Development in the 80's. (Washington, DC: Agri-energy Roundtable, Inc., 1980.) 62 pages.
Contains selected papers and materials from the Agri-energy Roundtable Conference 1980. The purpose of the conference was to provide a forum to provide discussion and improved communications on the relationships between agriculture and energy.

1221
U. S. Food and Fiber Sector: Energy Use and Outlook, Economic Research Service. (Washington, DC: U. S. Department of Agriculture, 1974.)
Describes uses of energy in agriculture.

1222
Wage the Energy War at Home, J. C. Davis, et al. (New York, NY: Emerson Books, 1978.) 256 pages, $9.95.
Reviews basic techniques of installing and selecting insulation and storm windows, reducing heat loss and power consumption, and heating with solar and wind energy.

1223
Water Fit to Drink, Carol Keough. (Emmaus, PA: Rodale Press.) 280 pages, $5.95, paper.
Shows that drinking tap water may be hazardous to your health, and tells how to ensure a safe supply of water for the household and concludes with a glossary of water terminology, a listing of commercial filters, and addresses of public and private water-testing laboratories.

1224
A Winter Hazard for the Old: Accidental Hypothermia, U.S. Department of Health and National Institutes of Health.(Bethesda, MD: National Institutes of Health.) This publication overviews the causes, symptoms, and prevention of hypothermia.

1225
The World Energy Book: An A - Z Atlas and Statistical Source Book, David Crabbe et al, Eds. (Cambridge, MA: MIT Press, 1979.) $12.50.
Provides comprehensive reference guide to energy-related terminology, economics and factors related to search for, extraction of, and production and use of fossil fuels, with some data on alternative energy sources.

1226
World Energy Outlook. (New York, NY: Exxon Corporation, 1977.) 39 pages, free.
Projects the long-range outlook for world energy supply and demand. From analyses by Exxon Corporation, January, 1977. Includes data concerning economic outlook; conservation outlook; world energy supply and demand; world electric and nuclear power outlook; world gas, oil, and coal supplies; nuclear fuel cycle; new energy sources; rate of discovery of world crude oil reserves; energy supply lead times; OPEC crude oil needed to balance projected world demand; and causes for concern in the worldwide energy outlook.

1227
World Energy Strategies, Amory Lovins. (Cambridge, MA: Ballinger Publishing Company, 1975.) $6.95, paper.
Suggests that energy needs be met with non-traditional methods and resources.

1228
World Energy: The Facts and The Future, Don Hedley. (New York, NY: Facts on File, Inc., 1981.) 368 pages, $22.50.
Examines the structure and development of world energy during the past decade, and projects the likely developments in supply and demand in the year 2000.

1229
The World Energy Triangle: A Strategy for Cooperation, T. Hoffman et al. (Cambridge, MA: Ballinger Publishing Company, 1981.) 219 pages, $20.
Explains the world energy situation in terms of political and energy decision-making that would improve the overall energy picture. It describes the industrialized West, the oil-rich states, and the developing countries as the principal competitors for energy.

1230
Your Career in Energy-Related Occupations, G. Davis. (New York, NY: Arco Publishing, Inc., 1980.) 128 pages, $2.95, paper.
Presents a history of energy systems, highlights the current energy crisis, and discusses the educational requirements, demands and employment prospects of various energy-related jobs. Jobs in the coal mining and petroleum industries are covered as are those in hydroelectric, nuclear, line workers, solar energy, and alternate energy resources.

Conservation

1231
Air-To-Air Heat Exchangers for Houses, William Shurcliff. (Andover, MA: Brick House Publishing Company.) $17.95.
Surveys inexpensive exchangers to ventilate homes; aimed at contractors and senior students.

1232
Alternatives In Energy Conservation: The Use of Earth-Covered Buildings, F. Moreland. (Washington, DC: U. S. Government Printing Office, 1975.) 362 pages, $3.25.
Provides basic information on earth-sheltered homes.

1233
Analysis of Energy Audits at 48 Hospitals. (Springfield, VA: National Technical Information Service.) $6.50.
Offers specialized information for hospitals and similar round-the-clock buildings. Listed are some 900 recommendations of 60 different types, ranging from eliminating excess lighting to installing heat recovery systems. About 100 of them cost nothing to do.

1234
"The Art of the Possible in Home Insulation," D. Robinson, **Solar Age**, October, 1979.
Suggests methods of upgrading insulation in existing buildings.

1235
Better Use Of...Your Electric Lights, Home Appliances, Shop Tools -- Everything that Uses Electricity, Michael Hackleman. (Culver City, CA: Peace Press.) 166 pages, $10.95.
Offers methods of using electric machines more efficiently.

1236
Bicycle Transit: Its Planning and Design, B. L. Balshone et al. (New York, NY: Praeger Publishers, 1975.) 164 pages, $17.95.
Investigates bicycle systems and cycling paths' history, planning, engineering, legislation, and design concepts. Includes an extensive research bibliography.

1237
Campus Energy Management Projects. (Washington, DC: National Association of College and University Business Officers, 1979.) 58 pages.
Compiles data concerning energy conservation measures at more than 60 colleges and universities in the United States and Canada. Some projects are described in detail and others very briefly. Both sections include projects on building envelopes, electrical systems, HVAC systems, building operations, and utilities production and distribution.

1238
A Clipbook of Energy-Saving Ideas in Home-Building. (Chicago, IL: United States League of Savings Associations, 1977.) 159 pages, $5.
Offers selections of articles from magazines and pamphlets for builders and savings and

loan associations.

1239
Community Energy Policy Workshops: A Training Manual. (Bowling Green, OH: Bowling Green State University.) $10.
Shows a tested step-by-step technique for involving citizens in energy policy development and analysis.

1240
The Complete Energy-Saving Home Improvement Guide. (New York, NY: Arco Publishing, Inc., 1979.) 144 pages, $1.95.
Offers a comprehensive collection of ideas for saving energy at home.

1241
Conserving Electricity in Commercial Buildings. (Knoxville, TN: Tennessee Valley Authority.) 8 pages, free.
Offers ideas to reduce the electricity consumed by lighting, thermal regulation in buildings, water heating, and food services.

1242
"Conserving Energy in Existing Buildings," T. I. Wetherington, Jr., **Building Systems Design**, June/July 1974.
Tells how to cut energy usage in buildings built before conservation became important.

1243
Conserving Energy in Older Homes: A Do-It-Yourself Manual, Harry M. Bernstein, et al. (Silver Spring, MD: Applied Management Sciences, Inc., 1981.) 45 pages, $7.50.
Suggestions for homes built before 1940 to help save energy and money. The manual discusses many of the standard conservation measures but focuses on those features of older homes that require special attention.

1244
Consumer Reports Money-Saving Guide to Energy in the Home. (Garden City, NY: Doubleday and Company, 1979.) 102 pages, $3.50, paper.
Explains how to conserve energy, how much it will cost to do so, what the energy savings will be, and through product ratings, what's available to do the job.

1245
Cutting Energy Costs: The 1980 Yearbook of Agriculture. (Washington, DC: U. S. Department of Agriculture, 1980.) 397 pages.
Contains chapters by specialists from the U. S. Department of Agriculture and the state land grant universities dealing with various aspects of energy conservation. These chapters are divided into energy conservation ideas for agriculture and forestry, family living, communities, and chapters on alternative energy sources.

1246
Design Your Landscape to Conserve Energy, J. T. Cox. (East Lansing, MI: Michigan State University, 1977.) 2 pages, free.
Gives energy-saving alternatives in landscape design that provide practical and feasible methods of energy conservation. Subjects discussed include the selection of a homesite; planting trees to reduce fuel bills, both by summer shading and protection from wind in winter; and low-energy yard maintenance.

1247
Digging In, Dave Carter. (Henderson, NC: Mother Earth Bookshelf.) 56 pages, $7.50, paper.
Offers advice for anyone planning to build a subterranean house. The author discusses initial planning, materials, mortages, and special "underground" problems.

1248
Do-It-Yourselfer's Guide to Modern Energy-Efficient Heating and Cooling Systems, John Traister. (Blue Ridge Summit, PA: Tab Books, 1977.) 280 pages, $5.95.
Shows the do-it-yourselfer how to select, maintain, and repair a range of modern heating and cooling systems: solar radiant, forced air, and boiler fed. Clear, detailed, step-by-step instructions with abundant black and white illustrations and diagrams aid in

accomplishing the purpose.

1249
Earth Integrated Architecture: An Alternative Method for Creating Livable Environments with an Emphasis on Arid Regions, J. W. Scalise, Ed. (Tempe, AZ: Arizona State University.) 286 pages, $10.
Addresses methods of earth-sheltered construction.

1250
Earth Sheltered Homes: Plans and Designs, Donna Ahrens et al. (New York, NY: Van Nostrand Reinhold Company.) 128 pages, $9.95, paper.
Examines a great variety of earth-sheltered designs, including seven built in the Minnesota Housing Finance Agency's demonstration program **Solar Age,** and 16 others from the United States and Europe. The selection provides an interesting contrast in housing styles.

1251
Earth Sheltered Housing: Code, Zoning, and Financing Issues, Underground Space Center, University of Minnesota. (Washington, DC: U.S. Department of Housing and Urban Affairs, 1980.)
Lets you know what to expect from local officials. If you have a question on codes, ordinances, or financing, this book can answer it. How to plan ahead and avoid complications.

1252
Earth-sheltered Housing Design: Guidelines, Examples, and References, Underground Space Center, University of Minnesota. (New York, NY: Van Nostrand Reinhold Company, 1979.) 310 pages, $9.95, paper.
Offers in one convenient source most of the information consumers need to know in order to decide whether or not underground living is for them. Topics covered are: site planning, architectural design and public policy issues. In addition, there are numerous examples of existing earth-sheltered houses.

1253
The Earth Shelter Handbook, Tri Arch Associates. (Henderson, NC: Mother Earth Bookshelf.) 244 pages, $12.95, paper.
Covers siting, design, and construction considerations for many different types of earth-sheltered homes. 440 line drawings and photographs.

1254
Earth Shelter Housing Design Report. (Minneapolis, MN: University of Minnesota, 1978.) $10.
Introduces the reader to basic features of underground structures.

1255
Economic Disincentives for Energy Conservation, J.W. Russell, Jr. (Cambridge, MA: Ballinger Publishing Company, 1979.) 157 pages, $17.50.
Tells states and localities how to experiment with economic disincentives. It discusses the energy problem and energy conservation, the advantages and disadvantages of economic disincentives, automobile-related disincentives, and the impacts of energy cost on the poor and elderly.

1256
Energy Audit for Growers. (Alexandria, VA: Society of American Florists.)
Tells how florists can save a lot of energy, particularly in greenhouse operations.

1257
Energy Audit Workbook for Hotels and Motels. (Springfield, VA: National Technical Information Service, 1978.) 93 pages, $6.50.
Describes some simple measures by which the maintenance manager or operator of a motel or hotel can analyze energy uses, determine areas in which energy savings can be made, and estimate cost saving in accordance with federal procedures. Topics include low-cost maintenance and operational changes, capital investments for energy and money savings, and follow-up plans.

1258
Energy Awareness and Conservation: You Make The Difference, U. S. Department of Education, Office of Vocational and Adult Education. (Palo Alto, CA: American Institutes for Research, 1982.)
Offers a series of booklets that cover saving energy at home, in business and in school lesson plans.

1259
Energy Conservation: A Consumer Guide to Saving Energy...and Money. (Detroit, MI: United Automobile, Aerospace and Agriculture Implement Workers of America, Consumer Affairs and Conservation Department.) 18 pages.
Offers a union members guide for anyone wanting to learn the basics of home energy conservation. It covers different varieties of insulation; practices for saving energy in heating and cooling operations; hot water use in the kitchen, bathroom, and laundry; and overall household practices.

1260
Energy Conservation and Mentally Retarded Citizens, C. J. Fogelman. (Washington, DC: American Association on Mental Deficiency.) 4 pages, $1.50.
Suggests some principles of developing energy conservation programs where retarded persons might be particularly affected, ways to conserve energy, and pertinent references.

1261
Energy: Conservation and Public Policy, John C. Sawhill, Ed. (Englewood Cliffs, NJ: Prentice-Hall, Inc., 1979.) 259 pages.
Debates current energy policies and suggests alternatives.

1262
Energy Conservation and You: A Housing Energy Primer, H. Olin et al. (Chicago, IL: United States League of Savings Associations, 1978.) 47 pages, $2.
Offers a short overview of basic principles of home heating, site planning, insulation, and solar energy.

1263
Energy Conservation: Experiments You Can Do...From Edison. (Southfield, MI: Thomas Alva Edison Foundation, 1978.) 32 pages, junior/senior high school.
Tells of simple experiments that show the value of various types of energy conservation practices at home. Conservation ideas for heating and air conditioning, hot water, and appliances and lighting are included, as is a section on energy sources and how to read electric and gas meters.

1264
Energy Conservation for American Agriculture, R. A. Friedrich. (Cambridge, MA: Ballinger Publishing Company, 1978.) 173 pages, $18.50.
Examines energy use on farms, and attempts to identify energy-efficient strategies that states and localities should promote. Relatively inexpensive to expensive methods by which farmers could make better use of energy are explained.

1265
Energy Conservation Handbook for Light Industries and Commercial Buildings. (Washington, DC: U. S. Department of Commerce, 1974.) 18 pages, 35 cents.
Contains information on energy conservation in light industries and commercial buildings. An energy conservation guide is included with information on particular items needing conservation techniques, why the item is important, the exact method for conservation, time required to implement the technique, which employees or representatives could be helpful, and potential energy savings as a result of implementation.

1266
Energy Conservation in Agriculture. (Ames, IA: Council for Agricultural Science and Technology, 1977.) 61 pages.
Contains the proceedings of a symposium on energy conservation in agriculture. Various speakers addressed the energy issue from their respective positions as legislators, members of the executive branch of government, and

scientists.

1267
Energy Conservation in Buildings: An Economics Guidebook for Investment Decisions, H. E. Marshall et al. (Washington, DC: National Bureau of Standards, 1980.) 144 pages, $5.
Provides principles, techniques, step-by-step illustrations, and sample problems on how to evaluate the economics of energy conservation and solar energy investments. Techniques of economic evaluation are described and compared in terms of their advantages and disadvantages.

1268
Energy Conservation in New Building Design: ASHRAE Standard. (New York, NY: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1975.) 53 pages.
Provides design requirements to improve usage of energy in new buildings, directed toward the design of building envelopes with adequate thermal resistance and low air leakage, and toward the design and selection of their heating, ventilation, and air conditioning (HVAC), service water heating, electrical distribution, and illuminating systems and equipment for effective use of energy.

1269
Energy Conservation in the Food System, Federal Energy Administration. (Washington, DC: U. S. Government Printing Office, 1976.) 74 pages, $1.45.
Provides basic information on energy requirements to produce food.

1270
Energy Conservation Standards: For Building Design, Construction and Operation, Fred S. Dubin et al. (New York, NY: McGraw-Hill Book Company, 1978.) $22.50.
Presents practical methods of energy management in new and existing buildings. Discusses HVAC, electrical system modifications, conservation options and economic analyses.

1271
Energy Conservation -- The Tax Approach, J. L. Brown et al. (East Lansing, MI: Michigan State University, 1978.) 4 pages.
Suggests ways in which tax policy can be used to promote energy conservation. Some merits and demerits of taxing energy are reviewed, and some advantages and disadvantages of several frequently-suggested tax policies are highlighted.

1272
Energy Conservation Through Building Design, Donald Watson, Ed. (New York, NY: McGraw-Hill Book Company, 1979.) $19.50.
Describes historical perspective, passive solar heating, design based on climate, fenestration and heat flow through windows, computer-aided energy design, life-cycle costing for energy conservation, energy requirements, energy management for commercial buildings, solar energy and the law, and land use.

1273
Energy Conservation Through Improved Solid Waste Management. (Cincinnati, OH: Environmental Protection Agency, 1974.) 80 pages.
Provides an introduction to saving energy by handling garbage more efficiently.

1274
Energy Cost Reduction for Apartment Owners and Managers. (Chicago, IL: Institute of Real Estate Management.) $3.
Tells how potential energy savings of up to 30 percent may be achieved.

1275
Energy Cost Reduction for Automotive Service Facilities. (Elmhurst, IL: Energy Guide, Automotive Service Councils.) $1.50.
Tells how automotive repair shops could save 20 to 30 percent of their energy costs.

1276
Energy Cost Reduction for Commercial Printers. (Arlington, VA: The Printing Industries of America.) $5.
Describes how commercial printers could save

20 to 30 percent of their energy use.

1277
Energy Cost Reduction for Retail Stores. (Washington, DC: American Retail Federation.) $2.50.
Suggests ways that small retail firms could save 10 to 20 percent.

1278
Energy Cost Reduction in Gasoline Service Stations. (Washington, DC: National Congress of Petroleum Retailers.) $1.
Addresses ways that gasoline service stations could save 10 to 20 percent in energy costs.

1279
Energy Cost Reduction in the Baking Industry. (Hyattsville, MD: Retail Bakers of America.) $5.
Tells how small bakeries could save thousands of dollars annually.

1280
Energy Cost Reduction in the Fabricare Industry. (Silver Spring, MD: International Fabricare Institute.) $2.50.
Shows how laundry and dry-cleaning businesses use a significant amount of energy and could save 20 to 30 percent of their energy usage.

1281
The Energy-Efficient Church: How to Save Energy (and Money) in Your Church, D. Hoffman. (New York, NY: Pilgrim Press, 1979.) $4.95.
Offers a complete guide to furnaces, automatic thermostat setbacks, insulation, window modifications and shading.

1282
Energy Generation from Cotton Gin Trash: An Economic Analysis, Ronald D. Lacewell et al. (College Station, TX: Center for Energy and Mineral Resources, Texas A&M University.) Free.
Consists of economic analyses of both electric power generation and low-Btu gas generation from cotton gin trash. According to the authors, gin trash can be converted into low-energy gas which can meet the energy needs of the gin.

1283
Energy Management Handbook, Wayne C. Turner, Ed. (New York, NY: John Wiley and Sons, Inc., 1982.) 784 pages, $49.50.
Suggests methods of saving energy.

1284
Energy Management: Trade Associations and the Economics of Energy. (Washington, DC: U. S. Department of Commerce, 1974.) 16 pages.
Provides brief examples of energy conservation in industrial and commercial trade associations including the American Textile Manufacturing Institute, and the National Association of Food Chains.

1285
The Energy Resources Center Illustrated Guide to Home Retrofitting for Energy Savings, Paul A. Knight. (New York, NY: McGraw-Hill Book Company, 1981.) 364 pages, $14.95.
Offers both basic information on home weatherization and step-by-step explanations of retrofitting procedures. Topics such as heat loss, vapor barriers, and insulation are covered.

1286
The Energy Saver's Handbook for Town and City People, Massachusetts Audubon Society. (Emmaus, PA: Rodale Press, 1982.) 326 pages, $10.
Offers general overview of home energy conservation, which pulls together technical information from widely-scattered sources.

1287
Energy-Saving Electric Motors: Industrial and Commercial Applications. (Washington, DC: U. S. Government Printing Office, 1977.) 15 pages, $1.
Describes methods to aid the user in the selection of energy-saving electric motors as a means of conserving energy. Included

is a procedure to calculate the payback period for motors.

1288
The Energy Saving Guide, G. Helcke. (New York, NY: Pergamon Press, 1981.) 224 pages, $45.
Gives a means of comparing an investment in energy-saving measures with other types of financial investment. It illustrates the economics of energy-saving measures and how measures can be ranked according to cost effectiveness. It describes the present-value concept, the effects of inflation, break-even time, net present value, rate of return, annual maintenance charges, and deferment of investment in order to achieve cost effectiveness within a defined period.

1289
Energy Saving Handbook for Homes, Businesses and Institutions: 1000 Ways to Conserve Our Most Essential Resource, Edwin B. Feldman. (New York, NY: Frederick Fell Publications, Inc., 1979.) 160 pages., $9.95.
Gives ideas for many different situations and budgets; almost everyone is bound to find something suitable.

1290
Energy Saving Projects You Can Build. (Des Moines, IA: **Better Homes & Gardens Book**, 1979.)
Offers basics on weatherizing and well-illustrated projects for homes that save energy.

1291
Energy: The Case for Conservation, Denis Hayes. (Washington, DC: Worldwatch Institute, 1976.) 77 pages, $2.
Addresses the virtues of conserving energy.

1292
Energy: The Conservation Revolution, John H. Gibbons et al. (New York, NY: Plenum Publishing Corporation, 1981.) 261 pages, $17.50.
Presents a clear easily-readable synthesis of history, energy economics, and demography. Two striking conclusions are made: economic growth is possible without growth in energy demand, and oil consumption can be cut in half in less time than it would take to produce needed synthetic fuel.

1293
Energy-Wise Cooking: Cut Energy Costs with These Sensational Recipes. M. Happel. (New York, NY: Butterick Publishing, 1979.) 135 pages, $4.95.
Contains numerous recipes designed to reduce energy use in the kitchen. Recipes are provided for dishes to be prepared in the oven, toaster oven, electric skillet, slow cooker, microwave oven, and on top of the stove.

1294
Energy-Wise Home Buyer: A Guide to Selecting an Energy-efficient Home, U. S. Housing and Urban Development et al. (Washington, DC: U. S. Government Printing Office, 1979.) 60 pages, $2.
Lists 12 energy-efficient features to look for in a new home, how to calculate the total energy cost of a used home and make energy improvements, and offers saving home maintenance and living.

1295
Family Handyman Practical Book of Saving Home Energy, Family Handyman. (Blue Ridge Summit, PA: Tab Books, 1978.) $5.95, paper.
Offers ideas for saving energy by adding modifications to existing homes.

1296
$50 and Up Underground House Book, Mike Oehler. (Henderson, NC: Mother Earth Bookshelf.) 112 pages, $8.95, paper.
Provides basics for anyone who's thinking about building his or her own livable, pleasant, light and airy, and tuned-in-to-nature home . . . for anywhere from $50 to $15,000!

1297
547 Easy Ways to Save Energy in Your Home, Roger Albright. (Charlotte, VT: Garden Way Publishing Company, 1978.) 124 pages, $4.95.

Offers tips to alleviating the high cost of energy in the home. It provides inexpensive hints and suggestions rather than step-by-step, do-it-yourself projects.

1298
From the Walls In, Charles Wing. (Boston, MA: Little, Brown and Company, 1965.) 226 pages, $9.95.
Presents all the techniques, facts and figures needed to remodel, modernize, and retrofit older homes to improve their energy efficiency. The book provides information on how to insulate walls, attics, floors, windows, doors, shades, and shutters.

1299
Gadgets and Gizmos: Energy Saving Devices for Home Heating, J. F. Thomas. (Madison, WI: Wisconsin University, 1979.) 6 pages.
Helps the consumer determine whether a specific device is worth the investment involved in adding it to his heating system.

1300
Getting the Most From Every Drop: A Checklist for Saving Farm Fuels. (Austin, TX: Texas Department of Agriculture.) 13 pages.
Presents information for conservation of farm fuel including equipment operation and maintenance.

1301
The Grown Man's Tunneling Guide, David Carter. (Henderson, NC: Mother Earth Bookshelf.) 64 pages, $4.95, paper.
Provides an introduction to geotecture-underground architecture that -- except for exits -- does not break the surface. Discusses everything from tunneled camping shelters to full-sized homes.

1302
Guide to Energy Conservation for Food Service. (Washington, DC: U. S. Government Printing Office, 1977.) 74 pages, $2.25.
Tells suggestions on starting energy conservation programs in food service establishments, followed by chapters on food preparation and storage, lighting, sanitation, and heating, ventilating and air-conditioning.

1303
Guide to Energy Conservation in Warehousing, (Madison, WI: University of Wisconsin.) $6.95.
Provide practical, low or no-cost suggestions for maximizing energy efficiency. Addresses operations, freight delivery considerations and energy-use measuring, and describes ways to set up an energy monitoring system.

1304
A Guide to Running a Recycling Project. (Portland, OR: Oregon Department of Environmental Quality.)
Provides basic information on recycling methods.

1305
The Handbook of Earth Shelter Design, Mike Edelhart. (Henderson, NC: Mother Earth Bookshelf.) 235 pages, $11.95, paper.
Offers floor plans and photographs of atriums, hillside homes, desert houses, and suburban designs, plus information about climate/soil conditions, drainage, light, heating/cooling/insulation, use of solar power, zoning, and financing.

1306
Handbook of Solid Waste Disposal: Material and Energy Recovery. (New York, NY: Van Nostrand Reinhold, 1975.) $28.50.
Provides an introduction to the basics of managing garbage professionally.

1307
Handy Farm and Home Devices, J. V. Bartlett. (Cambridge, MA: MIT Press, 1981.) 320 pages, $7.95, paper.
Offers useful sections on energy-saving devices.

1308
Heat Pumps: An Efficient Heating and Cooling Alternative, Dermot McGuigan. (Charlotte, VT: Garden Way Publishing Company, 1981.) 160 pages, $6.95, paper.

Provides guide to how heat pumps were developed, how they work, and what to consider when selecting one. The major portion of the book is a detailed discussion of the different types of heat pumps.

1309

Heat Pumps -- Application and Realiability. (New York, NY: American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1972.) 19 pages.

Deals with the application and reliability of heat pumps. It covers a reliability study by an Alabama electric utility of production heat pump units; a businessman's view of the heat pump business; a manufacturer's comments on the type of design required to qualify a refrigeration cycle as a heat pump apparatus; and a discussion of present heat pump availability and application in multi-family dwellings.

1310

Heat Pumps: Design and Application, D. A. Reay et al. (New York, NY: Pergamon Press, 1979.) 302 pages, $15, paper.

Reviews in detail the state of the art of heat pump design and application. It provides a brief history of the heat pump, reviews the thermodynamic theory of its operation, and discusses domestic, commercial, and industrial applications.

1311

The Home Energy Guide: How To Cut Your Utility Bills, J. Rothchild et al. (New York, NY: Ballantine Books, 1978.) 247 pages, $1.95.

Offers a comprehensive guide to saving energy in the home with methods that save money.

1312

Home Energy Saver's Workbook, Federal Energy Administration. (Washington, DC: U. S. Government Printing Office, 1977.) 29 pages, 50 cents.

Provides a manual on calculating dollar savings from energy conservation measures.

1313

The Homemaker's Book of Energy Savers, Jean E. Laird. (Battleboro, VT: Stephen Greene Press, 1981.) 173 pages, $12.95.

Covers energy sources necessary to heat, cool, run appliances, and provide light and water. There is also an excellent chapter on solar energy, accompanied by a list of suggested readings. All topics are approached with the idea that the reader can save money if certain measures are taken.

1314

The Homeowner's Energy Guide: How to Beat the Heating Game, John A. Murphy. (Columbus, OH: Cromell Publishing Company, 1976.) 215 pages, $9.95.

Offers a workbook format that enables the homeowner to calculate potential savings, costs, and payback for various energy-conserving measures. By converting heat loss into heat-dollar costs, the homeowner can analyze all components of the house (ceilings, exterior walls, doors, windows, floors, and basements) and determine costs of each under a variety of conditions.

1315

Homeowner's Energy Investment Handbook: A Guide to Energy-efficient Home Improvements That Pay Off, Michael McClintock. (Andover, MA: Brick House Publishing Company, 1981.) 128 pages, $12.95.

Shows how to decide among hundreds of energy-saving measures and how to calculate their cost and anticipated savings.

1316

Homeowner's Guide to Landscaping That Saves Energy Dollars, R. Foster. (New York, NY: David McKay Company, Inc., 1978.) 184 pages, $10.95.

Reviews techniques for using wind, the sun, water, land formations, vegetation, and surface materials to save energy.

1317

Homeowner's Guide to Saving Energy, Billy L. Price et al. (Blue Ridge Summit, PA: Tab Books, 1976.) 288 pages, $5.95.

Presents simple tasks the homeowner or renter can undertake to reduce electricity and fuel bills. Methods for insulating and weatherstripping are described. It discusses routine maintenance and tuning of heating and cooling systems, and suggests conserving ways to use household appliances and lights.

1318

Home Remedies: A Guide for Residential Retrofit, Tom Wilson, Ed. (Philadelphia, PA: Mid-Atlantic Solar Energy Association, 1981.) 253 pages, $10, paper.

Offers a potpourri of energy conservation articles. The most useful parts give rules of thumb for house inspection and retrofit priorities; the importance of vapor barriers; and some specific low-cost retrofit possibilities.

1319

Home Retrofitting for Energy Savings, Paul A. Knight. (Washington, DC: Hemisphere Publishing Corporation.)

Offers comprehensive how-to-do-it and what to do, with illustrations to make each step clear. Covers everything from replacing broken glass to blowing insulation into your attic. Includes replacing shingles, caulking cracks, sealing air bypasses, repairing holes in the structure, and much more.

1320

Homes in the Earth, Larry S. Chalmers et al. (Henderson, NC: Mother Earth Bookshelf.) 112 pages, $7.95, paper.

Shows 40 houses that cost an average of 10 percent less to build than conventional homes do, and reduce energy consumption by up to 80 percent.

1321

The Household Energy Game, Thomas W. Smith et. al. (Madison, WI: Sea Grant Communications Office, 1974.) 20 pages.

Offers a "game" complete with tally sheets and a sample grid noting average household energy use. It covers only categories over which a homeowner can exercise control: transportation, home heat, hot water, air conditioning, refrigerator, freezer, washer, dryer, television, small appliances, cooking, and lighting. To win, save points by "adopting" energy-saving measures; compare old and new and reduced energy budgets.

1322

How Schools Can Control the Increasing Cost of Energy, H. F. Levy. (Philadelphia, PA: Consolidated Drake Press, 1978.) 67 pages.

Outlines the use of energy in schools. It also discusses what forms of energy may be available in the forseeable future, how energy is presently wasted in educational facilities, and how energy can be conserved now and in the future.

1323

How to Beat the Energy Crisis and Still Live in Style, Bill Baker. (New York, NY: G. P. Putnam's Sons , 1978.) $6.95, paper.

Offers step-by-step guide to buttoning up houses and apartments.

1324

How to Build a Rammed Earth Home, Ray Larson. (Henderson, NC: Mother Earth Bookshelf.) 20 pages, $5, paper.

Provides a compact manual about a building method that requires half the labor of an ordinary house, yet creates durable well-insulated walls.

1325

How to Build Your Own Underground Home, R. G. Scott. (Blue Ridge Summit, PA: Tab Books, 1979.) 256 pages, $11.95.

Recounts the author's experiences in building an underground home. The subjects discussed include the interaction of land and design, how to get work done, when to hire professional help, codes and regulations, site preparation, preparing and pouring footers, wall construction, roof design, waterproofing, backfilling, and grading.

1326

How to Do Your Home Insulating, L. Donald Meyers. (New York, NY: Harper and Row Publishers, Inc.,1978.) 170 pages, $3.95.

Covers factors to be considered in calculating energy losses and insulation needs. Discusses insulation needs. Discusses insulating materials, how to insulate ceilings, walls, floors, and basements; weatherstripping; caulking windows and doors; and how to seal off other sources of loss.

1327

How to Get More Miles per Gallon, R. Sikorsky. (New York, NY: St. Martin's Press, 1978.) 111 pages, $7.95.

Contains many tips that should increase gas mileage. Included are sections on gas-saving driving and parking techniques, ways to save at the gas station, gas-saving items for a car, maintenance tips for the car and tires, and external conditions affecting gas mileage.

1328

How to Insulate Gas or Oil-Fired Hot Water Tanks. (Butte, MT: National Center for Appropriate Technology, 1981.) 30 cents.

Offers step-by-step, illustrated instructions for a safe, simple, inexpensive and very effective method of insulating domestic hot-water heaters, using wire coat hangers and fiberglass insulation.

1329

How to Make Energy Conservation Pay For Itself. (Washington, DC: National Community Energy Management Center.) $20.

Analyzes and describes various ways to finance energy efficiency improvements in industrial, commercial and institutional buildings. The book explains innovative financing techniques that can allow property owners to reduce their energy costs without any capital investment.

1330

How to Save Gasoline: Public Policy Alternatives for the Automobile, S. Wildhorn et al. (Cambridge, MA: Ballinger Publishing Company, 1976.) 342 pages, $18.50.

Develops analytical tools to evaluate the effects of energy policies on private transportation, and to apply these tools to compare the effectiveness of several alternative policy instruments. Policy components, or combinations of components, were assessed to determine their long-term implications.

1331

How to Save Money by Insulating Your Home: Practical Instructions and Advice, Federal Energy Administration. (Hammond, IN: Northern Indiana Public Service Company, 1976.) 8 pages.

Provides concise information on home insulation. It lists types of insulation, but does not evaluate them. It explains the R-rating for insulation; advises which to use for attic floors, walls, and floors; and gives calculations to determine the quantity of insulation needed.

1332

How to Start a Recycling Center. (Sacramento, CA: California Solid Waste Management.)

Introduces the beginner to the best methods of operating a recycling center.

1333

How You Can Profit from the Energy Crisis. (High Point, NC: Southern Furniture Manufacturers Association.) $10.

Tells how furniture manufacturers could save 20 to 30 percent.

1334

Improving Energy Efficiency in Buildings: A Management Guide, D.R. Landsberg, et al. (Albany, NY: State University of New York Press, 1980.) 321 pages, $9.95, paper.

Discusses the energy crisis, preliminary building energy analysis, approaches to saving energy, and systems and factors contributing to energy consumption. Instructions are provided for performing advanced energy audits.

1335

Individual Energy Conservation Behaviors, P. Beck et al. (Cambridge, MA: Oelgeschlager, Gunn and Hain, Publishers, Inc., 1980.) 324 pages, $25.

Reports partial results of a study of consumers' energy attitudes and behavior called Project Monitor, to understand energy-related behavior.

1336
Industrial Energy Management. (Springfield, VA: VTL Technical Information Service, 1981.) 217 pages, $30, paper.
Covers planning energy conservation systems, monitoring the systems and analysis of certain specific industries.

1337
Inflation Fighter's Big Book: Beat the High Cost of Operating Your Home, C. Waschek et al. (Reston, VA: Reston Publishing Company, Inc., 1979.) 262 pages, $12.95.
Offers an encyclopedia of conservation techniques; including savings on appliances, heating, laundry, insulation, lighting, fireplaces, and landscaping.

1338
Insulation Manual, Homes and Apartments. (Rockville, MD: National Association of Home Builders Research Foundation, Inc.)
Offers information on the proper installation, use, economics and benefits of insulation.

1339
Insulating Window Shade; Reduces Heat Loss through Windows by 80 Percent, Ray Wolfe. (Emmaus, PA: Rodale Press, 1980.)
Offers blueprints, detailed instructions, and explanation of the design of these unique energy-savers developed by the Rodale Design Center.

1340
In the Bank or up the Chimney? A Dollar and Cents Guide to Energy Saving Home Improvements, U.S. Department of Housing and Urban Development. (Washington, DC: U.S. Government Printing Office, 1977.) 73 pages, $3.
Describes energy-saving techniques for heating and cooling all types of homes.

1341
Landscape Design That Saves Energy, Anne Moffat et al. (New York, NY: William Morrow and Company, Inc., 1981.) 223 pages, $17.95.
Offers practical and attractive guide to landscaping a home or office to reduce space heating and cooling needs by as much as 30 percent annually.

1342
Landscape Planning for Energy Conservation, American Society of Landscape Architects Foundation. (Reston, VA: Environmental Design Press, 1977.) 224 paper, $20.
Gathers together available information on planning and using natural elements to assist in conserving existing energy and in using the unlimited solar energy striking the earth.

1343
Life Cycle Costing: A Practical Guide for Energy Managers, Dr. Robert S. Brown et al. (Atlanta, GA: The Fairmont Press, Inc., 1980.)
Covers techniques and applications of life-cycle costing. Thorough, yet practical information, which will enable you to apply life-cycle costing to a broad spectrum of energy-related projects and purchases.

1344
Lighting Energy Management in Retailing. (Washington, DC: National Lighting Bureau.) 24 pages, $5.
Offers a basic glossary, and tips on conducting a lighting energy audit.

1345
Low-cost Earth Shelters, Jim Eggert. (Harrisburg, PA: Stackpole Books, Inc., 1982.) 160 pages, $7.95.
Takes a look at inexpensive, do-it-yourself earth shelters. The work begins with an analysis of construction techniques. Individual chapters are devoted to discussions of concrete, stone, and wood foundations as well as to interior and exterior designs

for the homes.

1346
Low-cost, Energy-efficient Shelter for the Owner and Builder, Eugene Eccli, Ed. (Emmaus, PA: Rodale Press, 1976.) $9.95, paper.
Tells how to lower costs of a home through site planning and renovations. How to lower operating expenses through house design, ventilation, insulation, use of appliances, and types of water heating. Information on solar-designed homes, water heaters and greenhouses.

1347
Maintaining an Efficient Irrigation Pumping Plant Can Save You Money and Help Conserve Energy, O. I. Berge et al. (Madison, WI: Wisconsin University, 1978.) 4 pages.
Explains how to determine the efficiency of a pumping plant by comparing the amount of fuel or electric energy used with a performance standard established by agricultural engineers from a number of pumping plant tests in Nebraska. Some probable causes of poor performance are discussed.

1348
Manual of Energy Saving in Existing Building and Plants, Stephen Baron. (Englewood Cliffs, NJ: Prentice-Hall, 1978.)
Volume I ($30) - Offers opportunities and options to save energy and reduce operating costs through proper operations and maintenance.
Volume II ($40) - Offers options involving investment cost which should be recoverable through lower operating cost.

1349
Movable Insulation: A Guide to Reducing Heating and Cooling Losses through the Windows in Your Home, William K. Langdon. (Emmaus, PA: Rodale Press, 1980.) 379 pages, $8.95.
Deals with various methods of insulating windows. It explains heat losses and gain through the window and insulation designs that may help to reduce losses. These include glazing systems, interior pop-in shutters, thermal curtains, thermal shades, thermal shutters, folding screens, and exterior roll shutters.

1350
A Neighborhood Action Guide. (Washington DC: Civic Action Institute.)
Guides the beginner in establishing a community program to recycle waste.

1351
New Demands -- New Directions. (Chicago, IL: Association of Home Appliance Manufacturers, 1978.) $4.
Offers an informative how-to-get-the-most-out-of-your-home-appliances-book.

1352
No-Cost, Low-Cost Energy Tips, Stuart Diamond. (New York, NY: Bantam Books, Inc.)
Suggests that simplicity, not sacrifice, is the key to energy conservation. The author lives in an old Victorian house and has practiced what he preaches, cutting his energy bills from $2,000 to $600 or $700 a year.

1353
"Optimizing the Use of Energy for Lighting," John E. Kaufman, **Lighting Design and Application**, October, 1973.)
Addresses the question of proper lighting and saving energy.

1354
Plain Talk about Buying or Building an Energy-efficient Home. (College Station, TX: Texas Energy Extension Service, 1978.) 9 pages.
Shows the prospective homeowner how to save with energy-conserving construction and equipment. It concentrates on four areas for achieving energy conservation in new homes: thermal resistance, efficient systems, attic ventilation, leakage reduction.

1355
A Plan for Total Energy Efficiency in Buildings. (Washington, DC: American Institute of Architects, 1975.) 25 pages.
Offers advice from architects on making buildings energy-efficient.

1356
Police Cars and Energy Conservation. (Washington, DC: Law Enforcement Assistance Administration, 1974.) 22 pages.
Outlines police-car fuel consumption and conservation measures. Factors affecting fuel economy are presented including design features, operation, maintenance, fuel-saving devices and adjustments, and emission control devices.

1357
Profitable Energy Management for Retailers and Shopping Centers. (New York, NY: Chain Store Age Books, 1975.) 211 pages, $13.50.
Offers information regarding energy management and potential energy conservation related to lighting, heating, cooling, ventilation, maintenance operation, and new equipment purchases in retail areas.

1358
Railroad Energy Study: Efficiency Improvements, Vol. 1 - Freight Railroading, Stanford Research Institute. (Springfield, VA: National Technology Institute Services, 1977.) 75 pages, $8.
Considers ways to save energy in moving freight by rail.

1359
Recycling In Maine. (Augusta, ME: Division of Solid Waste Management, Department of Environmental Protection.)
Tells the story of establishing recycling programs in Maine.

1360
Reducing Energy Costs in Wholesale-Distribution. (Washington, DC: National Association of Wholesaler-Distributors.) $10.
Tells how most wholesale merchant firms that distribute goods may save as much as 20 percent.

1361
The Residential Energy Audit Manual, University of Massachusetts. (Atlanta, GA: The Fairmont Press, Inc.) $27.50.
Offers a step-by-step manual on how to perform residential energy audits.

1362
Retrofitting: The Thermal Upgrading of Buildings, Charlie Wing. (Falmouth, ME: Environmental Energy Education Project, 1977.) 26 pages, $3.25.
Covers: 1) Retrofitting Old Houses, 2) Condensation and Vapor Barriers, 3) Solutions to the Vapor Barrier Problem, and 4) How Much of Which Insulation.

1363
Rodale Plans for an Insulating Window Shade, Ray Wolf. (Emmaus, PA: Rodale Press, 1980.) 86 pages, $14.95, paper.
Offers step-by-step plans and instructions to walk you through the simple construction. Complete with blueprints, easy-to-understand diagrams, and step-by-step instructions.

1364
Save Energy: Save Money!, Community Services Administration. (Washington, DC: U.S. Government Printing Office, 1977.) 48 pages, $1.50.
Offers a collection of no-cost or low-cost heat saving tips.

1365
Saving Energy Costs in Your Automobile Dealership. (McLean, VA: National Automobile Dealers Association.) $2.50.
Tells how automobile dealers -- a fast-growing segment of our economy -- may save 15 to 20 percent.

1366
Saving Energy in the Older Home, A. E. Oviatt, Jr. et al. (Madison, WI: Wisconsin University, 1978.) 12 pages, free.
Offers some simple, inexpensive methods for energy conservation and money savings on energy in older homes. Topics covered include: finding air leaks, and using weatherstripping to stop them; simple suggestions for passive solar heating and cooling; roof ventilators; storm windows and doors; insulation of ceiling, walls, floors, ducts, and pipes;

and vapor barriers.

1367
Saving Money with Energy Conservation: An Energy Audit Workbook for Warehouses. (Washington, DC: U. S. Department of Energy, 1980.) 29 pages.
Provides a quick approach to an energy conservation program for warehouses without engineering personnel. It includes simple tips, ideas requiring little or no capital investment, and ideas requiring more capital.

1368
Selecting a Metal Storm Window . . . What to Look For. (Butte, MT: National Center of Appropriate Technology, 1980.) 40 cents.
Offers a comprehensive brochure illustrating and explaining the small construction details that make the difference between a good storm window and an ineffective one.

1369
Solid Waste Conversion to Energy, H. Alter et al. (New York, NY: Marcel Dekker, Inc., 1980.) 168 pages, $24.75.
Provides an introduction to the background and technology of resource recovery from municipal solid wastes as practiced in the U. S. and Europe. It discusses the similarities and differences of waste generation and composition, mechanized materials recovery in Europe, technologies for mechanical processing for fuel recovery, and fuel use technologies.

1370
State and Local Laws Which Promote Recycling. (Washington, DC: Institute for Local Self-Reliance.) $2.
Offers a collection of the laws about recycling in various localities and states.

1371
Stop Burning Your Money: The Intelligent Homeowner's Guide to Household Energy Savings, John Rothchild. (New York, NY: Random House, 1981.) 255 pages, $15.50.
Takes a hard-nosed look at a wide variety of energy-saving possibilities, rating each according to cost-effectiveness and payback potential. His first preference is always for low-cost/no-cost techniques or products, such as caulking or water-flow restrictors.

1372
Sun Belt Earth Sheltered Architecture, J. Langley et al. (St. Paul, MN: Earth Shelter Resource Center.) $8.
Offers a graphic presentation of earth sheltering as it relates to warmer climates, with design and construction anywhere.

1373
Superinsulated Houses and Double-Envelope Houses: A Survey of Principles and Practice, William A. Shurcliff. (Henderson, NC: Mother Earth Bookshelf.) 182 pages, $12, paper.
Tells about superinsulated dwellings, which are more nearly airtight than normal houses. Double-envelope houses feature warm air circulation through large hollow roof and wall spaces.

1374
The Superinsulated NCAT House. (Butte, MT: National Center for Appropriate Technology.) $20.
Offers plans for homes that can be built for one third to less than half the cost of the current going rate for single family homes -- and heated for between $50 and $200 a year.

1375
The Systematic Energy Conservation Management Guide: Accounting and Reporting in Energy Conservation Management. Volume II. (New York, NY: American Management Associations, 1978.) 123 pages, $325.
Introduces an integrated management accounting system, which gives equal weight to energy costs, direct labor, direct material, and factory overhead costs. It isolates changes that a company will have to make in its cost accounting system if energy costs are given a full line-item status in cost reports.

1376
Thermal Shutters and Shades: Over 100 Schemes For Reducing Heat Loss Through

Windows, William A. Shurcliff. (Andover, MA: Brick House Publishing Company, Inc., 1980.) 238 pages, $12.95, paper.
Places the emphasis on simple, low-cost schemes for saving energy through window insulation.

1377
30 Energy-Efficient Houses . . . You Can Build, Alex Wade et al. (Emmaus, PA: Rodale Press, 1977.) 336 pages, $11.95, paper.
Tells how to build a house that is energy-efficient and solar-heated and uses space well. It describes low-cost construction using recycled and easy-maintenance materials, post and beam framing, and ingenious shortcuts.

1378
Tips for Maintenance on Energy-using Equipment in the Smaller Hotel and Motel. (New York, NY: American Hotel and Motel Association's Hospitality, Lodging and Travel Research Foundation.) $1.
Suggests practical methods of saving energy and money in hotels.

1979
Trucker's Guide to Fuel Savings. (Washington, DC: U.S. Department of Transportation, 1973.) 20 pages.
Discusses steps that reduce fuel use by trucks without compromising performance and thus will not increase trip times. It deals with the various types of resistance, maintenance services for fuel economy, ways to reduce resistance, derating the engine, reducing engine speed, and fuel-efficient driving habits.

1380
200 Ways to Save on Energy in the Home, G. B. Roscoe. (Washington, DC: Acropolis Books, Ltd., 1978.) 102 pages, $4.95.
Offers a checklist for reducing energy consumption in the home.

1381
222 Ways to Save Gas: and Get the Best Possible Mileage, Chet Cunningham. (Englewood Cliffs, NJ: Prentice-Hall, 1981.) 112 pages, $3.95, paper.
Presents timely hints on driving, buying a car, tires, gadgets, service, and other topics.

1382
Underground Designs, Malcolm Wells. (Cherry Hill, NJ: Solar Service Corporation, 1977.) 88 pages, $6.
Offers drawings for underground buildings, both built and unbuilt. Many of the drawings include comments on the recent rediscovery of the natural phenomena involved in the new/old way of building. Much valuable technical material on land, laws, structures, insulation, drainage, and landscaping is included.

1383
Underground Homes Information Manual. (Portsmouth, OH: Underground Homes.) $29.95.
Provides a central source of information on all phases of earth sheltered housing.

1384
Underground House Book, Stu Campbell. (Henderson, NC: Mother Earth Bookshelf, 1979.) 208 pages, $10.95, paper.
Tells aspects of building, using examples from existing houses. Includes siting, financing, soil properties, water problems, structural design, thermal properties, interior design.

1385
Underground Houses, Robert L. Roy. (Henderson, NC: Mother Earth Bookshelf.) 128 pages, $5.95, paper.
Tells how to build your own 910-square-foot, naturally, energy-efficient underground home for as little as $6,750 . . . or a more spacious 1,444-square-foot home that includes three bedrooms, an office, and a sauna for less than $11,000!

1386
Underground Plans Book - 1, Malcolm Wells. (Henderson, NC: Mother Earth Bookshelf.) 44 pages, $13, paper.
Contains plans for eight different underground homes, that show how earth-sheltered

designs can be adapted to a variety of sites and exposures.

1387
The Use of Earth-covered Buildings, National Science Foundation. (Washington, DC: U. S. Government Printing Office, 1976.) $3.25.
Provides an introduction to earth-sheltered structures.

1388
Utilization of Reject Heat, M. Olszewski, Ed. (New York, NY: Marcel Dekker, Inc., 1980.) 190 pages.
Tells how to use reject heat, and dual-purpose power generation systems to minimize the reject heat, contains two chapters considering uses for low-grade waste heat such as that rejected in the condenser of a power-generating facility and uses for industrial waste heat. The second section of the books examines dual-purpose power applications.

1389
Warning: Insulate Yourself Against Consumer Rip-Offs. (Boston, MA: Energy Policy Office. 4 pages.
Offers methods of avoiding consumer rip-offs by insulation contractors and energy-efficiency device salesmen.

1390
The Waste Watchers: A Citizen's Handbook for Conserving Energy and Resources, A. H. Purcell. (Garden City, NY: Doubleday and Company, Inc., 1980.) 286 pages, $4.50.
Looks at the problem of energy and resource waste in the United States and describes many practical, simple strategies for reducing that waste.

1391
Weatherization Materials Handbook. (Washington, DC: Institute for Local Self-Reliance, 1979.) $6.75.
Provides a guide to various materials and their value in saving energy.

1392
Weatherize Your Mobile Home to Keep Costs Down, Comfort Up. (Washington, DC: U. S. Department of Agriculture, 1978.) 2 pages, free.
Describes safe, energy-saving practices to weatherize a mobile home to keep energy costs down without sacrificing comfort, focusing on locating the mobile home, and adding insulation and other improvements.

1393
Weatherizing Your Home, George R. Drake. (Reston, VA: Reston Publishing Company, Inc., 1978.) 381 pages, $16.95.
Provides the homeowner with detailed information and step-by-step instructions for weatherizing a home. Includes chapters on air circulation, humidification and dehumidification, air conditioning and a chapter on solar heating.

1394
Weatherproofing. (Alexandria, VA: Time-Life Books, 1977.)
Discusses how to protect homes against invasion by unwanted air and water, heat and cold, and animals and insects.

1395
Window Design Strategies To Conserve Energy, Robert S. Hastings et al. (Washington, DC: U.S. Government Printing Office, 1977.) 200 pages, $3.75.
Presents a systematic survey of approaches to window energy conservation, including windscreens and sunshades, exterior appendages, frame and glazing improvements, and interior accessories.

1396
Winter Survival: A Consumer's Guide to Winter Preparedness. (Washington, DC: U.S. Department of Energy, 1978.) 19 pages.
Offers a consumer's guide to winter preparedness and discusses cooler temperatures and health, winterizing the home, keeping warm in a cold house, cold weather exposure, winter driving tips, and what to do if the household heating or power supply is lost.

1397
Women Tapping A New Resource for Energy. (New York, NY: Consumer Action Now, 1979.) 28 pages, $2.
Puts emphasis on energy savings in the home.

1398
Your Energy-Efficient Home: Improvements to Save Utility Dollars, F. Hickok. (Englewood Cliffs, NJ: Prentice-Hall, Inc., 1977.)
Concerns methods to upgrade the energy performance of the average home. Chapter topics include fundamentals of heating and heat transfer, insulation of attics, selection of window design and materials, selection of door designs and materials, insulation and construction of walls, methods for preventing heat losses through floors and basements, what to do when adding rooms to a house, tips on adding solar heating, and methods for upgrading older houses.

1399
Your Energy-Efficient House: Building and Remodeling Ideas. (Charlotte, VT: Garden Way Publishing Company, 1975.) 118 pages, $4.95.
Provides a collection of energy-saving ideas.

1400
Your Guide to Good Shelter: How to Plan, Build, or Convert for Energy Conservation, Carmen Waschek et al. (Reston, VA: Reston Publishing Company, 1978.) 237 pages, $12.75.
Offers realistic, common-sense approach to the process of planning, designing, and building a home. Many of the suggestions can also be applied to existing homes.

Solar

1401
Adding Solar to Your Home, Robert W. Adams. (Henderson, NC: Mother Earth Bookshelf.) 280 pages, $7.95, paper.
Tells how to add a solar heating system to an already existing house. Also includes a detailed buyer's guide to sources for solar heating equipment.

1402
AERO's Sun Fun Coloring Book. (Billings, MT: Alternative Energy Resources Organization (AERO), 1978.) 13 pages, 50 cents.
Offers a learning tool for kids that includes cartoons and pictures to color, which illustrate solar, geothermal, and wind energy and wood heat.

1403
An Attached Solar Greenhouse, William F. Yanda et al. (Santa Fe, NM: The Lightening Tree.) 17 pages, $2.50.
Offers step-by-step instructions for the design, construction, and operation of a solar greenhouse (written in English and Spanish).

1404
Applications of Solar Energy for Heating and Cooling of Buildings, R. C. Jordan et al. (New York, American Society of Heating, Refrigerating and Air-conditioning Engineers 1977.) $9.
Suggests ways to heat and cool buildings with solar energy.

1405
At Home In The Sun: An Open-House Tour Of Solar Homes In The United States, Norah Deakin Davis et al. (Charlotte, VT: Garden Way Publishing Company,1979.) 200 pages, $9.95, paper.
Describes a tour of 30 United States solar-heated homes, as well as history of heating systems.

1406
Beadwall System Window and Greenhouse. (Albuquerque, NM: Zomeworks.) $15.
Has plans and specifications for an insulating beadwall window and greenhouse; includes license to construct a beadwall of approximately 140 sq. ft.

1407
Biological Control of Greenhouse Aphids. (Newport, VT: Memphremagog Group.)

$4.50.
Tells how to control aphids, one of the major causes of low yields in solar greenhouses.

1408
Blueprint for a Solar America, Denis Hayes, et al. (Washington, DC: Solar Lobby, 1979.) 39 pages, $2.
Has authors from seven different organizations who present a strong argument for making solar energy the focus of an ambitious national program to provide alternatives to fossil fuels. It discusses a variety of topics, including economics and environmental issues, that support the case for more emphasis on solar development.

1409
Breadbox Water Heater Plans. (Albuquerque, NM: Zomeworks, 1977.) 1 page, $2.50.
Explains how to convert standard water heaters into breadbox collectors for $250 to $400 (for 40 - 60 gallons). Materials lists and construction details are given.

1410
Building a Durable, Low Cost Solar Collector, Paul F. Larsen. (Loveland, Company; Paul Larsen, 1979.) 16 pages, $3.
Describes a simple solar collector that circulates and heats room air without storage or distribution networks. Each module is 32 square feet (4' x 8'); material costs are estimated at $4.50 per square foot.

1411
Building and Using a Solar-Heated Geodesic Greenhouse, J. Fontanetta et al. (Charlotte, VT: Garden Way Publishing Company, 1979.) 194 pages, $8.95.
Offers a good do-it-yourself book.

1412
Building A Solar Water Heater: A Do-It-Yourself Manual with Blueprints, Akira Kawanabe et al. (San Luis, CO: Future Power Project, 1977.) 38 pages, $7.50.
Offers a review of the basic mechanics, design, and operation of several solar water heating systems, a fold-out blueprint and step-by-step illustrated instructional guide that details construction of a low-cost solar hot water system (a 32-square-foot, 4' x 8' collector and storage system with thermosiphon circulation).

1413
Build-It Book of Solar Heating Projects, W. F. Foster. (Blue Ridge Summit, PA: Tab Books, 1977.) 195 pages, $5.95, paper.
Offers hot-water and space-heating projects in detail for the homeowner.

1414
Build Your Own Solar Water Heater, Stu Campbell. (Charlotte VT: Garden Way Publishing Company, 1978.) 108 pages, $8.95.
Offers a nuts-and-bolts handbook for planning, building, and installing domestic solar water heating systems. Describes several types of systems and components (from simple to complex), covering the pros and cons of each.

1415
Build Your Own Solar Water Heater. (Winter Park, FL: Environmental Information Center, Florida Conservation Foundation, 1976.) 25 pages, $2.50.
Includes information on the three types of systems (thermosiphon, pumped, and closed-loop) and their components. There are plans, a materials list, and illustrated step-by-step directions for building and installing a 4' x 10' flat plate collector.

1416
Buying Solar, Federal Energy Administration. (Washington, DC: U. S. Government Printing Office, 1976.) 71 pages, $1.85.
Provides basic information and tips for consumers who are considering purchasing active, collector-based solar heating systems from commercial manufacturers. It provides answers to frequently-asked questions.

1417
Catch A Sunbeam: A Book Of Solar Study

And Experiments. New York City, NY: (Harcourt Brace Javanovich Inc., 1978.) $7.95. Grades 7-12.
Offers experiments and projects for constructing a solar heating panel and a parabolic stove.

1418
The Children's Solar Energy Book Even Grownups Can Understand, Tilly Spetgang et al. (New York, NY: Sterling Publishing Company,1982.) 156 pages, $6.95, paper.
Takes you into the classroom, and introduces you to the kids that inhabit it. After 156 pages of clear solar talk (from the teacher) and often hilarious reactions (from the students), the reader finishes the book with a smile and a clearer understanding of renewable energies.

1419
Complete Greenhouse Book: Building and Using Greenhouses from Coldframes to Solar Structures, Peter Clegg et al. (Charlotte, VT: Garden Way Publishing Company, 1978.) 280 pages, $10.95, paper.
Provides a working guide for design, construction, and management of solar greenhouses. Sections on soils, growing conditions, pests, and diseases.

1420
Complete Solar House, B. Cassiday. (New York, NY: Dodd, Mead and Company, 1977.) 212 pages, $8.95.
Offers a discussion of the workings and functions of solar energy systems; includes the cost-savings features.

1421
Consumer Handbook of Solar Energy, J.H. Keyes. (Dobbs Ferry, NY: Morgan and Morgan Inc., 1979.) 273 pages, $10.95.
Tells guidelines for the person interested in purchasing solar energy systems; emphasizes "Solar Furnaces."

1422
Cookbook for Building A Solar Food Dryer, A. Valdez, (San Luis, CO: self-published, 1977.) 15 pages, $3.50.
Outlines construction procedure for solar food dryer -- a simple, inexpensive and ancient method of food preservation.

1423
Corrugated Collector Plans. (Henderson, NC: Mother Earth Bookshelf.) $10.
Offers a step-by-step plan for the construction and installation of an easy-to-build solar collector that can pump up to 19,000 free BTU per hour into your home . . . for less than $150!

1424
Crystal City Passive Solar Hot Water Heater, P. Risk, III et al. (Austin, TX: Center for Maximum Potential Building Systems, 1978.) 40 pages, $5.
Tells how to heat water with sunlight.

1425
David Kruscke's Greenhouse. (Wild Rose, WI: Minim Tech Solar.) $3.95.
Offers plans and report for a live-in greenhouse or an add-on greenhouse.

1426
Dawning of Solar Cells. (Washington, DC: Institute for Local Self-Reliance, 1976.) $2.
Offers a basic introduction to the technology and economics of solar cells for generating electricity.

1427
The Day We Saw The Sun Come Up, Alice Goudey. (New York, NY, Charles Scribner's Sons.) $7.95.
Tells how the sun and earth work together.

1428
Designing and Building a Solar House: Your Place in the Sun, Donald Watson. (Charlotte, VT: Garden Way Publishing Company, 1977.) 281 pages, $8.95.
Treats all aspects of solar home design. It relates climate areas (cool, temperate, hot-dry, and hot-wet) to general building design, and describes ways local climatic infor-

mation (solar radiation, wind and air flow, precipitation, and humidity) can be used in siting a home.

1429
Development and Evaluation of Thermic Diode Solar Panels for Building, Heating and Cooling. Final Report: November 1, 1975 - October 31, 1977, S. Buckley. (Springfield, VA: National Technical Information Service, 1978.) 71 pages, $5.25.
Covers technical information about thermic diode solar panels.

1430
Direct Energy Conversion, Stanley Angrist. (Boston, MA: Allyn and Bacon, Inc., 1976.) 421 pages, $11.95.
Discusses brief history of photovoltaic effect, semi-conductors for solar cells in space and photovoltaically-produced electrical power on earth.

1431
Direct Use of the Sun's Energy, Farrington Daniels. (Henderson, NY: Mother Earth Bookshelf, 1964.) 271 pages, $2.50, paper.
Offers broad view of research, status and potential of direct solar energy for cooking, heating, agricultural and industrial processes, distillation and production of electricity.

1432
The Double Shell Solar House, Community Builders. (Henderson, NC: Mother Earth Bookshelf.) 120 pages, $15, paper.
Addresses many questions people have about the double-shell house.

1433
"Double-Wall House: Minimizes Heat Loss and Fuel Bills", **Popular Science**, October, 1980.
Describes the basics of a double-walled or envelope design.

1434
Dry It - You'll Like It, Gen Mac Maniman (Seattle, WA: Madrona Publishers, Inc., 1973.) $3.95.
Has plans for building a food dehydrator and many recipes for food drying.

1435
Employment Impacts of the Solar Transition, Leonard S. Rodberg. (Washington, DC: U. S. Government Printing Office, 1978.) 49 pages.
Estimates the impact on employment of the widespread investment of an energy conservation/solar energy future. Projections estimate the employment resulting from such spending.

1436
Energy Conservation and Solar Heating For Greenhouses, D. S. Ross et al. (Ithaca, NY: Cornell University, 1978.) 48 pages, $1.50.
Describes principles for operating greenhouses efficiently.

1437
Energy from the Sun, Melvin Berger. (New York, NY; Harper and Row Publishers, Inc., 1976.) 33 pages, $5.95, primary.
Elementary-grade explanations of the concept and role of energy are presented in a non-abstract way. The book shows the sun as the source of nearly all energy and the force needed for all our food and energy needs, and uses examples that everyone has experienced, such as the sidewalk hot enough to fry an egg on, to demonstrate ways in which solar energy can be transformed into other energies.

1438
Energy: The Solar Prospect, D. Hayes. (Washington, DC: Worldwatch Institute, 1977.) 79 pages, $2.
Emphasizes the use of solar resources as the appropriate alternative energy source. Topics include: solar heating and cooling; solar thermal power plants; wind power; power from falling water; organic fuels from wastes and crops grown for their energy value; and storage of solar energy.

1439
Engineer's Guide to Solar Energy, Yvonne

Howell, et al. (Sacramento, CA: Solar Energy Information Services.) $29.50, paper.
Offers a good overview of different technologies for layperson and engineer.

1440
Exploring With Solar Energy, Thomas H. Metos et al. (New York, NY: Julian Messner, 1978.) 64 pages, $6.96, Grades 4 - 6.
Tells the history of solar energy use and future uses; solar energy experiments.

1441
Field Studies of Solar Corn Drying, 1979 - 1980 Report. (Springfield, IL: Illinois Institute of Natural Resources.)
Reports on using sunlight and warmth to dry corn.

1442
Financing the Solar Home, David Barrett, et al. (Lexington, MA: D. C. Heath and Company, 1977.) $21.95.
Assesses lending institutions' receptivity to solar home financing. Examines the residential mortgage market, financing availability, lender incentive programs and program options.

1443
The First Passive Solar Home Awards, Office of Policy Development and Research. (Washington, DC: U. S. Government Printing Office, 1979.)
Tells about a passive-solar home-design competition sponsored by the U. S. Department of Housing and Urban Development, and offers the most important passive solar home designs and details. Written primarily for the builder, this book contains a wealth of passive solar design information, including several innovative movable insulation systems.

1444
Fish Farming in Your Solar Greenhouse, William Head et al. (Eugene, OR: Amity Foundation.)
Offers a reference about raising fish indoors.

1445
Food and Heat Producing Solar Greenhouse, Rich Fisher et al. (Santa Fe, NM: John Muir Publications, 1979.) $9.
Tells principles, design, construction, growing instructions, and performance of solar greenhouses.

1446
Free Standing Solar Reliant Greenhouse Plans. (Evergreen, CO: Solstice Design, Inc..) $14.
Offers five 18-x-24-inch blueprints for a free-standing greenhouse with a ground area of 192 square feet.

1447
The Fuel Savers, Dan Scully et al. (Andover, MA: Brick House Publishing Company, 1978) 64 pages, $2.75.
Includes a variety of ways to use solar energy, ranging from very simple devices to complex systems. Introductory work.

1448
A Golden Thread: 2500 Years of Solar Architecture and Technology, Ken Butti. (New York, NY: Van Nostrand Reinhold Company, 1980.) 289 pages, $15.95.
Describes the major advances in solar architecture and technology during the past 2500 years. Emphasizes the human side of technological innovation and demonstrates that, indeed "there is nothing new under the sun."

1449
Graphic Standards of Solar Energy, Spruille Braden. (Boston, MA: CBI Publishing Company, 1977.) 212 pages, $19.95.
Offers specific information for the design and maintenance of solar-energized and energy-saving buildings.

1450
Great Little Greenhouse and Solar Heater. (Carbondale, IL: Shawnee Solar Project.) $4.50.
Offers plans for an attached, lean-to style greenhouse.

1451
Greenhouse. (Henderson, NC: Mother Earth Bookshelf.) $15.
Offers plans for a 12' x 6' solar greenhouse.

1452
Handmade Hot Water Systems, A. Susman, et al. (Point Arena, CA: Garcia River Press, 1978.) 91 pages, $4.95.
Tells how to build your own hot-water system.

1453
The Hawkweed Passive Solar House Book. (Chicago, IL: Rand McNally and Company, 1980.) 192 pages, $7.95, paper.
Written for people about to build a new home, especially those who are looking for some ideas in the area of solar heating and sets out to dispel some common misconceptions about passive solar heating. Proceeds to take the homeowner step-by-step through the process of planning, designing, and building a passive solar home.

1454
Heat Grabber. (Henderson, NC: Mother Earth Bookshelf.) $10.
Tells how you can build your own hard-working BTU-bagger in about six hours . . . and at a cost of around $45. Designed to fit any standard window, will heat any well-insulated room during cold, sunny days.

1455
Here Comes the Sun: A Manual Explaining Practical Solar Heat Applications with Blueprints for Solar Systems Using Air and Water. (Cedar Springs, MI: Jordan College, 1977.) 160 pages, $15.95.
Provides suggestions on concentrating and storing solar energy for home use. Blueprints and instructions for building solar systems are included.

1456
Here Comes the Sun 1981. (Boulder, CO: Joint Venture Inc., 1975.) 97 pages, $1.75.
Tells about various solar mechanical systems, energy conservation measures, and multi-family housing concepts. Illustrates these systems and their general components, recommends conservation techniques, and suggests programmatic and architectural responses to both.

1457
Home Guide to Solar Heating and Cooling, J. Hand. (New York, NY: Harper and Row Publishers, Inc., 1978.) 183 pages, $3.95.
Offers discussion of solar heating and cooling principles and a guide to installing solar energy systems.

1458
Homeowner's Guide to Solar Energy. (Springfield, IL: Illinois Department of Business and Economic Development, Division of Energy, 1977.) 56 pages.
Describes active solar systems, evaluates the availability of solar energy in Illinois, and cites factors to consider in solar retrofits as well as new solar construction. Rural solar applications for corn drying and milk parlors are suggested.

1459
Homeowner's Guide to Solar Heating and Cooling, W. M. Foster. (Blue Ridge Summit, PA: Tab Books, 1976.) 196 pages, $4.95.
Presents information that would be helpful to a homeowner considering a solar heating/cooling system. It describes fuel cost comparisons, local weather considerations, government incentives, basic system operation, alternative systems, and demonstration projects.

1460
Homeowner's Solar Sizing Workbook, Solar Energy Research Institute. (Washington, DC: U. S. Government Printing Office, 1980.) 45 pages.
Offers a guide to determining appropriate size for solar collectors and/or their economic return. The individual has only to complete the enclosed worksheets and perform the indicated calculations.

1461
How to Build a Passive Solar Water Heater,

Horace McCracken. (Boulevard, CA: Mountain Press, 1978.) 23 pages, $4.50.
Offers plans similar to the breadbox, with some differences in box design and insulation, which affect both aesthetics and performance. The author suggests the plans not to be used in areas where the temperature falls below 20 degrees F.

1462
How to Build a Solar Crop Dryer. (Santa Fe, NM: New Mexico Solar Energy Association.) 10 pages, $1.50.
Offers plans, instructions and a list of the materials needed to build a solar food dryer. The dryer operates on natural convection and has 36 square feet of tray space. The food dryer costs approximately $60 to build.

1463
How To Build a Solar Heater, Ted Lucas. (New York, NY: Crown Publishers, Inc., 1980.) 242 pages, $6.95.
Instructs the reader in building a solar heater.

1464
How To Buy Solar Heating Without Getting Burnt, Malcolm Wells. (Emmaus, PA: Rodale Press, 1978.) 275 pages, $6.95.
Offers a guide for consumer on buying solar water and space heating systems.

1465
How To Make A Solar Cabinet Dryer For Agricultural Produce, T. A. Lawand. (Quebec, Canada: Brace Research Institute, McGill University.) 9 pages, $3.50.
Provides instructions for building a solar dryer.

1466
How To Solarize Your House: A Practical Guide To Design And Construction For Solar Heating, Thomas Scott Dean. (New York, NY: Charles Scribner's Sons, 1980.) 162 pages, $20. Concludes that although solar heating is costly for an existing house, the home handy-person can significantly reduce the expense; $60 to build.

1467
How to Understand Solar Energy Technology and Economics, Massachusetts Energy Policy Office. (Hampton, NH: Solar Data, 1977.) $6.50.
Provides an introduction to solar energy and its economics.

1468
How to Use Solar Energy in Your Home and Business, T. Lucas. (Pasadena, CA: Ward Ritchie Press, 1977.) 250 pages, $7.95.
Offers a practical and basic guide to building and buying solar collectors.

1469
An Introduction to the Applications of Solar Energy, J. C. McVeigh. (Elmsford, NY: Pergamon Press, Inc., 1977.) 208 pages, $4.95.
Tells about the state-of-the-art of solar energy, by an engineer from Brighton Polytechnic in Sussex, England. A comprehensive overview of the topic in a scholarly, somewhat technical, manner is provided.

1470
Jobs From The Sun. (Los Angeles, CA: California Public Policy Center, 1978.) $8.
Estimates the employment opportunities that may arise with the growth of solar energy businesses.

1471
John Barling's Solar Fun Book: 18 Projects For the Weekend Builder, John Barling. (Henderson, NC: Mother Earth Bookshelf, 1979.) 95 pages, $7.95.
Offers clearly-illustrated projects for the homeowner.

1472
Let's Find Out About The Sun, C. Shapp, et al. (New York, NY:Franklin Watts, Inc., 1975.) $4.90. Kindergarten - Grade 3.
Tells about the sun, earth, and the seasons.

1473
Let's Reach For The Sun: 30 Original Solar and Earth Sheltered Home Designs, George

Reynoldson. (Henderson, NC: Mother Earth Bookshelf.) 144 pages, $12.95, paper.
Gives a shopper's (and dreamer's) guide to 30 basic-but-beautiful designs that combine active and passive solar systems with earth sheltering in a variety of ways.

1474
Low-Cost Passive Solar Greenhouse: A Design And Construction Guide, Ron Alward et al. (Butte, MT: National Center for Appropriate Technology, 1980.) $5.
Provides a how-to technical guide for do-it-yourselfers that emphasizes durable, low-cost construction techniques. Includes irrigation systems, lists of suppliers and resource groups, and plans.

1475
Making and Using Electricity From the Sun, Technical Staff of Solarex Corporation. (Henderson, NC: Mother Earth Bookshelf, 1979. 143 pages, $5.95.
Explains how electricity is produced by solar voltaic cells. Discusses applications and potential of photovoltaics in nontechnical language.

1476
Making Solar Laws Work: A Study of State Solar Energy Incentives. Volumes I - II, J. D. Roessner et al. (Golden, CO: Solar Energy Research Institute, 1980.) $9.
Tells about 11 financial-incentive programs and 12 research and development programs that have been investigated to determine the organizational and administrative processes necessary to convert a law into a functioning program.

1477
Man and The Sun, J. Hawkes. (College Station, TX: Solpub Company, 1978.) 280 pages, $9.50.
Discusses solar energy in general.

1478
Memoirs Of A Solar Greenhouse. (Ann Arbor, MI: E. J. Whiting.) $2.
Takes the reader through all the steps in building a solar greenhouse.

1479
Methodology for Determining the Economic Feasibility of Residential or Commercial Solar Energy Systems, A. M. Perino. (Albuquerque, NM: Sandia Labs., 1979.) 39 pages, $6.50.
Presents a methodology for analyzing the economic feasibility of solar energy systems based upon a life-cycle costing criterion. Both residential and commercial solar energy systems may be handled.

1480
Natural Solar Architecture, D. Wright. (New York, NY: Van Nostrand Reinhold Company, 1978.) 245 pages, $8.95, paper.
Covers passive solar design and provides diagrams and explanations of important concepts.

1481
New Inventions in Low-Cost Solar Heating, William A. Shurcliff. (Andover, MA: Brick House Publishing Company, 1981.) 320 pages, $18.
Offers a survey of radical new inventions of others and many bold new schemes by the author. The emphasis is on simple, low-cost techniques.

1482
Noti Solar Greenhouse; Performance and Analysis, Eric Hoff et al. (Eugene, OR: University of Oregon, 1977.) 32 pages, $2.
Describes a privately-owned passive solar greenhouse in Noti, Oregon that demonstrates the viability of passive solar heating in the Pacific Northwest. Specifications, drawings and photographs describe the greenhouse.

1483
On the Economics of Solar Energy: The Public-Utility Interface, S. L. Feldman et al. (Lexington, MA: Lexington Books, 1980.) 256 pages, $26.95.
Examines the potential tradeoffs between energy-conservation and solar-energy use in the space conditioning of residential buildings and the heating of hot water.

1484
Overcoming Legal Uncertainties About Use Of Solar Energy Systems, (Chicago, IL: American Bar Association.) 80 pages, $5, paper.
Identifies legal barriers to the use of solar energy for heating and cooling and suggests legislative remedies by proposing model statutes. Includes definitions.

1485
Passive Cooling. (New York, NY: American Section of the International Solar Energy Society.) 1,000 pages, $125.
Covers cooling options in such categories as dry climate cooling practices, humid climate cooling practices, earth-coupled cooling, radiative cooling, landscaping and site planning, weather data and design tools, building design and test facilities, and consumer and policy issues.

1486
Passive Solar Buildings: A Compilation of Data and Results, R. P. Stromberg. (Springfield, VA: National Technical Information Service, 1977.) 71 pages, $5.25.
Compiles performance test data of five passive design concepts (direct gain, thermal storage wall, solar greenhouse, roof ponds, and convective loop) that have been incorporated into buildings in a variety of climates and locales.

1487
Passive Solar Design: A Survey of Monitored Buildings, American Institute of Architects Research Corporation. (Springfield, VA: National Technical Information Service, 1978.) 353 pages, $12.50.
Consists of collected articles reporting the thermal performance of buildings using passive solar techniques. There is a summary of the results.

1488
Passive Solar Design Handbook. (Springfield, VA: National Technical Information Service.) Volume I - $13.25, Volume II - $14.
Volume I is qualitative and written for the uninitated and Volume II is quantitative and written for the architect, engineer, and researcher.

1489
The Passive Solar Energy Book, Edward Mazria. (Emmaus, PA: Rodale Press, 1979.)
Offers a primer on solar energy and includes a chapter on movable insulation, one on reflectors, and another on shading devices. The chapter on movable insulation examines window insulation primarily for south-facing windows.

1490
Passive Solar Energy: The Homeowner's Guide to Natural Heating and Cooling, Bruce Anderson et al. (Andover, MA: Brick House Publishing Company, 1980.) 194 pages, $8.95, paper.
Discusses the virtues of passive solar heating. Explains the reasons for considering passive solar heating and then proceeds to discuss design basics that are critical to successful performance of a passive solar home.

1491
Passive Solar Food Dehydrator For Under $50, Sunkeepers. (Virginia Beach, VA: Thoughtful Solar Applications.) $6.
Offers step-by-step instructions for making your own solar food dryer.

1492
The Passive Solar Greenhouse and Organic Hydroponics: A Primer, Rick Kasprzak. (Flagstaff, AZ: R. L. D. Publications, 1977.) 79 pages, $5.80.
Covers the author's experience in designing and building a passive solar greenhouse attached to a residence at an altitude of 7000 feet above sea level in the northern Arizona mountains, and covers hydroponics.

1493
Passive Solar Retrofit For Homeowners And Apartment Dwellers, Ken Bossong. (Washington, DC: Citizens' Energy Project, 1981.) $5, paper.
Describes passive solar energy design con-

cepts that can be added onto existing buildings to help reduce heating and cooling expenses.

1494
The Passive Solar Story: Using the Sun's Energy without Solar Collector Panels. (San Francisco, CA: Pacific Gas and Electric Company, 1978.) 17 pages, free.
Offers a lucid, nontechnical, consumer-oriented explanation of passive solar energy. Ideas such as southern exposure, double-paned windows, and evergreens as windbreaks are suggested.

1495
Performance Comparison Between Air and Liquid Residential Solar Heating Systems, S. Karaki et al. (Springfield, VA: National Technical Information Service, 1978.) 18 pages, $4.
Discusses two types of solar systems.

1496
People's Solar Sourcebook, Solar Usage. (Henderson, NC: Mother Earth Bookshelf, 1980.) Now Inc., 352 pages, $5.00.
Offers theory, diagrams, supply catalog of solar and wind systems. Window insulation supply catalog included.

1497
People Who Live in Solar Houses and What They Say About Them, C. Davis et al. (New York, NY: Popular Library, 1979.) 224 pages, $2.25.
Provides interviews with owners and occupants of 32 solar houses; includes costs, types of collectors and storage and sketches of each house.

1498
Photovoltaic Power Generation, David L. Pulgrey. (New York, NY: Van Nostrand Reinhold Company, 1978.) $18.95.
Offers a technical book on solar cell design and use.

1499
Photovoltaics: Sunlight to Electricity in One Step, Paul D. Maycock et al. (Andover, MA: Brick House Publishing Company, 1981.) 221 pages, $9.95.
Introduces the general reader to the technology and social implications of photovoltaic electricity production.

1500
Plan For The Construction Of A Brace Greenhouse: No. 2. (Montreal, Quebec, Canada: Brace Research Institute, McGill University.) $4.50.
Offers plan with construction details of a 20-x-20-square-foot wood frame greenhouse.

1501
Plan For The Construction Of A Brace Greenhouse: No. 3. (Montreal, Quebec, Canada: Brace Research Institute, McGill University.) $4.50.
Tells plan with construction details of a larger 20-x-60-square-foot wood frame greenhouse.

1502
Plan For The Construction Of The Latest Model Of The Brace Design Greenhouse: The Experimental Night-Cover Greenhouse. (Montreal, Quebec, Canada: Brace Research Institute, McGill University.) $4.50
Offers diagram illustrating Brace-type greenhouse, which incorporates underground heat storage and an insulating night cover.

1503
The Portable Solar Greenhouse. (Santa Fe, NM: Solar Sustenance Team.) 6 pages, $10.
Offers plans for a small portable solar greenhouse, which can be built in one day and can be used at fairs, exhibits, and schools. The plans include a materials list and step-by-step construction directions.

1504
Practical Sun Power, William H. Rankins III et al. (Black Mountain, NC: Lorien House, 1975.) 51 pages, $4.
Tells of eight basic solar projects that can be made at home by an amateur using basic hand

tools and easily-acquired materials. Each project contains step-by-step building instructions, photos, drawings, complete plans for construction, parts lists, sources, exact specifications on materials, approximate prices, charts, and calculations.

1505
Principles and Applications of Solar Energy, P. N. Cheremisinoff et al. (Ann Arbor, MI: Ann Arbor Science Publishers, 1978.) $15.
Provides a primer on solar energy.

1506
Principles of Solar Engineering, Frank Kreith et al. (New York, NY: McGraw-Hill Book Company, 1978.) $24.50.
Offers textbook for engineers that covers solar radiation, energy conversion, fluid mechanics and heat transfer. Discusses system analysis, components, economics, cooling, photovoltaics, process heat and natural conversion systems.

1507
Proceedings of the Second Conference on Energy-Conserving, Solar-Heated Greenhouses. (Stanford, CT: New England Solar Energy Association, 1979.) $12.
Reports state-of-the-art in solar greenhouses in 38 papers that cover thermal and horticultural performance, heat storage and marketing.

1508
Proceedings of the Fifth National Passive Solar Conference, 1980. (Boulder, CO: U.S. Section of the American Solar Energy Society, 1980.) $20.
Tells about state-of-the-art passive solar heating and cooling.

1509
Proceedings of the 1980 Annual Meeting of the American Section of the International Solar Energy Society. (Boulder, CO: U.S. Section of the American Solar Energy Society, 1980.) $125.
Reviews progress by the American Section of the International Solar Energy Society in achieving long-standing goal of gathering solar information, fostering research and encouraging application of solar technology.

1510
Proceedings of Solar Energy Consumer Protection Workshop; Opening and Final Plenary Sessions, Florida Solar Energy Center. (Springfield, VA: National Technical Information Service, 1979.) 214 pages, $9.25.
Covers the history of solar energy, the nature and operation of solar equipment, the solar market and its outlook, and information on the experiences of the solar consumer (in Florida primarily) to date.

1511
Protecting Solar Access for Residential Development: A Guidebook for Planning Officials, M. Jeffe et al. (Chicago, IL: American Planning Association, 1979.) 154 pages.
Shows planners how to use conventional land-use controls to protect solar access in new residential development for space heating and cooling and domestic hot water. The manual contains sections on planning and zoning for solar access, subdivision regulations and solar access, regulating trees and landscaping for solar access, site plan and environmental review and solar access, and convenants and easements.

1512
Putting the Sun to Work in Industry. (Golden, CO: Solar Energy Research Institute, 1980.) 9 pages, free.
Discusses the potential applications of solar energy to industry, particularly in the production of process heat. These applications include hot water, steam hot air, and direct process heat.

1513
Put the Sun to Work Today. (Oak Ridge, TN: Technical Information Center, 1978) 28 pages.
Acquaints the public with solar energy in today's world. Color diagrams and sketches and nontechnical language combine to make this publication an introduction to the sub-

ject of solar energy.

1514
San Luis Future Power, Maria Valdez et al. (Denver, CO: ROMCOE, 1978.) 40 pages, $3.75.
Tells about San Luis, chosen as the rural pilot community to represent the Future Power program's approach to energy problem-solving through community-initiated action, and about three "hands-on" workshops: 1) Solar Food Dryer, 2) A Solar Retrofit, and 3) Solar Water Heater.

1515
Save Heating Cost: Use Solar Energy, H. Skarbek, Ed. (New York, NY: Keystone Solar Energy, Inc., 1975.) $2.50.
Tells how to save on energy bills by using solar power.

1516
The Second Passive Solar Catalog, David A. Bainbridge. (Davis, CA: Passive Solar Institute, 1981.) 110 pages, $12.50, paper.
Emphasizes retrofitting buildings, commercial or residential. While the formulas on tax incentives and payback will soon be dated due to legislation and inflation, the basic principles Bainbridge develops are sufficient to give novices a handle on coping with energy-crisis vagaries.

1517
Semiconductor Solar Energy Converters, Valentin Alekseevich Baum, Ed. (New York, NY: Plenum Press, 1969.) $27.50.
Offers technical work translated from the Russian. Some papers are of practical nature, while others deal with theoretical and design problems.

1518
Single Story Attached Passive Solar Greenhouse Plans. (Evergreen, CO: Solstice Designs Inc.) $20.
Offers eight 18-x-24-inch blueprints for an attached solar greenhouse; includes charts, tables and calculations for permit minor design changes.

1519
Solar Access Law: Protecting Access to Sunlight for Solar Energy Systems, Gail Boyer Hayes. (Cambridge, MA: Ballinger Publishing Company, 1979.) 303 pages, $18.50.
Evaluates legal strategies to insure present and future use of solar energy as applied to sun rights. Pros and cons of various possible approaches and discussed in detail.

1520
Solar Architecture, Gregory E. Franta et al. (Ann Arbor, MI: Ann Arbor Science Publishers, Inc., 1978.) 331 pages, $15.
Emphasis is on passive systems, including four articles on greenhouses and case studies of solar buildings in the Roaring Fork Valley, Telluride, and Denver (all in Colorado).

1521
Solar Cell and Photocell Experimenter's Guide, Stuart Hoberman. (Indianapolis, IN: H.W. Sams and Company, 1976.) 128 pages, $3.25.
Takes the reader through basic experiments in photocells.

1522
Solar Business Experience -- Proceedings of the Solar Realities Forum: Learning From Experience, (Stanford, CT: New England Solar Energy Association, 1979.) $10.
Relates experience of solar constructors and innovators in financing and small business, marketing, architecture and engineering, and construction and installation. Gives case studies on variety of buildings.

1523
Solar Cell Array Design Handbook: Principles and Technology of Photovoltaic Energy Conversion, Hans S. Rauschenbach. (New York, NY: Van Nostrand Reinhold Company, 1980.) 549 pages, $42.50.
Offers a comprehensive handbook on current solar-cell array designs. Ranges from illustrative and introductory to detailed and technical.

1524
Solar Cells, Charles E. Backus, Ed. (New

York, NY: Institute of Electrical and Electronics Engineers, 1976.) 504 pages, $29.95.
Contains classic papers in the field through 1974 and an extensive bibliography.

1525
Solar Cells, Harold Hovel. (New York, NY: Academic Press, 1975.) 254 pages, $14.50.
Offers background and general reference source primarily for the nonexpert in the field of photovoltaics. An introductory course in solid state electronics would be useful for a full understanding of the book.

1526
Solar Cells, M. Ranney. (Park Ridge, NJ: Noyes Data Corporation, 1969.) $35.
Provides detailed technical information based on U.S. patents. An advanced, industrially-oriented review of solar cell technology, which can be used as a guide to U. S. patents in the field through 1969.

1527
Solar Cell and Photocells. (El Segundo, CA: International Rectifier, 1971.) 98 pages, $2.
Provides a theoretical discussion with practical considerations and illustrated data on the use of semiconductor photovoltaic and photoconductive devices.

1528
Solar Compendium, Ken Bossong, Ed. (Washington, DC: Citizens' Energy Project, 1978.) 161 pages, $6.
Offers a source book on solar energy. There are lists (and more lists) of sources, individuals, manufacturers, agencies, and organizations.

1529
Solar Components. (Manchester, NH: Kalwall Corporation, 1979.) 44 pages.
Provides a catalog of components and products for constructing a solar collector and/or system. Includes explanations of product use, construction tips, and special precautions.

1530
Solar Concepts: A Background Text and Teacher's Notes, Jonathan W. Gordam. (Falmouth, ME: Maine Audubon Society, 1979.) 262 pages, $12.
Provides a basic solar text and teachers' notes, which highlight key points in the text, sources for additional reading, experiments, and exams for use in conjunction with the text. The text is designed for vocational education students.

1531
Solar Control and Shading Devices, Aladar Olgyag et al. (Princeton, NJ: Princeton University Press, 1976.)
Covers movable insulation, contains valuable advice on sun angles and shading devices, and emphasizes exterior shading for warm climates.

1532
The Solar Controls Book. (Lakewood, CO: Solar Training Publications.) Four-section volume - $3.95.
Includes Section 1) Basic Electrical Principles for the Solar Installer; Section 2) Differential Controls for Domestic Hot Water System; Section 3) Advanced Control Systems; and Section 4) Interfaces.

1534
The Solar Decision Book: Your Guide to Making a Sound Investment, Richard H. Montgomery et al. (New York, NY: John Wiley and Sons, 1978.) 272 pages, $12.95.
Provides an overview of the energy crisis and outlines various nonfossil and natural fuels available, selecting solar energy as the best alternative. A comprehensive treatment of solar as an investment, including advice on financial planning, performance charts, cost comparisons, and design data to aid appraisals and support value claims in loan negotiations is given.

1535
Solar Domestic Water Heating Systems, M. J. McAvin. (Monticello, IL: Vance Bibliographies, 1980.) 20 pages, $3.
Lists books and articles discussing the design, purchase, do-it-yourself construction,

and costs of various active and passive solar domestic water heating systems and components.

1536
Solar Designing, James Lambeth et al. (Fayetteville, AR: James Lambeth, 1977.) $11.95, paper.
Guides the reader in designing solar homes.

1537
Solar Dwelling Design Concepts, American Institute of Architects Research Corporation. (Washington, DC: U.S. Government Printing Office, 1979.) $2.30.
Discusses all facets of the design and siting of housing intended to be heated by the sun; also includes discussion of the impact of solar energy utilization on traditional dwelling design.

1538
Solar Dwelling Designs. (New York, NY: Sterling Publishing Company, 1980.) 144 pages, $5.95.
Offers a collection of solar home designs.

1539
Solar Energy, J. Hoke. (New York, NY: Franklin Watts, Inc. 1978.) $5.45.
Reviews solar energy use and experiments; with diagrams, photographs, and charts.

1540
Solar Energy, A.C. Meyers, III et al. (Newark, DE: University of Delaware, 1978) $15.
Offers an introduction to solar energy conversion and use.

1541
Solar Energy: A Biased Guide, W. L. Ewers. (New York, NY: Domus Books, 1979.) 100 pages, $4.95.
Attempts to present information on solar energy in concise, easily-understood language. Topics covered include the history of solar energy development; detailed information on solar water heaters, space heating and cooling; swimming pool heating and other applications, including construction and installation information; and projected developments in solar energy.

1542
Solar Energy Dictionary, V. Daniel Hunt. (New York, NY: Industrial Press, Inc., 1981.) 450 pages, $25.
Defines words ranging from processes and products to renewable solar technologies, with words used in conjunction with active and passive solar, photovoltaics, biomass, alcohol fuels, wind energy conversion, solar thermal energy, ocean energy, hydroelectric power and energy conservation.

1543
Solar Energy Education Packet for Elementary and Secondary Students. (Washington, DC: Center for Renewable Resources, 1979.) $4.35.
Offers selection of solar activities, reading lessons and background materials about all forms of renewable resources (sun, wind, water, biomass). Over 25 simple solar projects for students.

1544
Solar Energy Experiments for High School and College Students. (Emmaus, PA: Rodale Press Inc., 1977.) 129 pages, $5.95. Includes a collection of 18 experiments and eight classroom activities, a glossary, measurement unit conversions, summary of R-factors, solar data, and a bibliography. The experiments are clearly written and examine various solar and material property measurements and quantifications.

1545
Solar Energy for Agriculture and Industry. (Washington, DC: U.S. Department of Energy, 1978.) 9 pages.
Summarizes work funded by the U.S. Department of Energy in the field of solar energy for agriculture and industry. In agriculture, solar energy uses include peanut drying, tobacco curing, and hay drying. Industrial uses center on process heat, including steam, hot air, and hot water.

1546
Solar for Your Present Home, Charles S. Barnaby et al. (Sacramento, CA: California Energy Commission, 1978.) 163 pages, $4.29.
Helps the homeowner determine the feasibility of using solar energy for water, space, and swimming pool heating, and is one of the few publications concentrating solely on retrofitting (using solar applications for existing homes).

1547
Solar Energy: Fundamentals in Building Design, Bruce Anderson. (New York, NY: McGraw-Hill Book Company, 1977.) 374 pages, $21.50.
Written for architects and building professionals, chapters include 1) Solar Energy: A Context for Its Proper Use; 2) Designing with the Sun; 3) Low Impact Technology Solutions; 4) Solar Hot Water; 5) Systems for Indirect Use of The Sun's Energy; and 6) Energy and Solar Energy Phenomena.

1548
Solar Energy Handbook, **Popular Science** Staff. (New York, NY: Times-Mirror Magazines, 1979.) $1.95.
Offers general articles on the full spectrum of solar-heat-catching techniques and solar buyer's guide with addresses for a variety of solar systems and components.

1549
Solar Energy in America, William D. Metz, et al. (Washington, DC: American Association for the Advancement of Science, 1978.) 239 pages, $18.50.
Offers a description of the dramatic developments in solar energy that have occurred in the United States since 1973. It covers both direct and indirect (biomass, wind, and ocean thermal energy) solar technologies.

1550
Solar Energy in Developing Countries: An Overview and Buyer's Guide for Solar Scientists and Engineers, A. Eggers-Lura. (Elmsford, NY: Pergamon Press, 1979.) 205 pages, $40.
Offers a handbook concerning current solar energy research and development activities in developing countries. Main subject areas include a review of state-of-the-art devices, details of international organizations engaged in solar energy research, and sources of literature.

1551
The Solar Energy Notebook, W. Rankins III et al. (Black Mountain, NC: Lorien House, 1976.) $4.
Offers passive solar energy information and calculations.

1552
Solar Energy Primer. (Jefferson City, MO: Missouri Department of Natural Resources.) 38 pages.
Offers overview covering solar space heating, water heating, and greenhouses, and directs the reader to federal agencies and nationwide associations and societies for further information. Glossary and bibliography are included.

1553
Solar Energy: Putting the Sun to Work, Barbara Brandt. (Somerville, MA: Solar Book Smith, 1978.) $3.
Provides picture book describing solar energy and energy in everyday use.

1554
Solar Energy: Technology and Applications, J. Richard Williams. (Ann Arbor, MI: Ann Arbor Science Publishers, Inc., 1977.) 184 pages, $9.95.
Describes the solar solution to the problems of pollution and the ever-increasing shortage of nonrenewable fossil fuels. The book introduces the techniques, equipment, practicality, costs, and comparative cost of using solar energy for myriad commercial and domestic applications, including fuel production, power generation, and space heating and cooling systems.

1555
Solar Energy Technology Handbook, William

C. Dickinson, et al. (New York, NY: Marcel Dekker, Inc., 1980.) $160.
Describes in detail the solar resources, solar thermal collectors, photovoltaics, bioconversion, wind energy storage systems as well as applications, systems design, and economics.

1556
Solar Energy Thermal Processes, J. A. Duffie et al. (New York, NY: John Wiley and Sons, Inc. 1974.) 386 pages, $25.50.
Written for professionals and engineers, this book demonstrates solar energy theories, especially for design of systems.

1557
Solar Energy Utilization, Tim Michels. (New York, NY: Van Nostrand Reinhold, 1979.) $18.50.
Stresses conservation for energy efficiency in residential design. Discusses passive and active solar thermal collectors, energy storage and system sizing.

1558
Solar Engineering for Domestic Buildings, William A. Himmelman. (New York, NY: Marcel Dekker, Inc., 1980.) 416 pages, $45.
Offers a practical engineering reference work for the engineer or builder who is assessing ways in which solar energy can best supplement domestic energy needs. The book defines solar systems and presents the basic engineering approaches to the sizing and construction of these systems.

1559
Solar Food Dryer. (Henderson, NC: Mother Earth Bookshelf.) $10.
Tells about a food dryer which can be made inexpensively from a few easy-to-obtain materials like a 55-gallon drum, plywood, and some nylon screen.

1560
The Solar Food Dryer Book, Stella Andrassy. (Dobbs Ferry, NY: Morgan and Morgan, Inc., 1978.) 127 pages, $3.95.
Tells about the Sunhood, a 19-x-25-inch solar food dryer invented and field tested throughout the United States by the author, which was specifically designed for drying vegetables, fruits, berries, herbs, and mushrooms. Useful in urban areas as well as rural communities.

1561
Solar For Your Present Home, C. S. Barnaby et al. (Sacramento, CA: California Energy Commission, 1977.) 163 pages, $4.46.
Offers a book on retrofitting from California that can be helpful in any part of the country.

1562
Solar Forced Air Heating System Plans, Domestic Technology Institute. (Evergreen, CO: Solstice Publications.) $7.50.
Tells about a low-cost solar heating system constructed of materials available in any hardware or lumber store, that can be mounted on a sloped roof and vertically on a south wall of any structure to gain direct solar space heating. The system is ideal for inexpensive heating of homes and large commercial and agricultural spaces.

1563
The Solar Greenhouse Book, James C. McCullagh, Ed. (Emmaus, PA: Rodale Press, 1978.) 328 pages, $8.95.
Presents several greenhouses that capitalize on movable insulation systems. Presents things that have been actually tried.

1564
Solar Heated Buildings of North America: 120 Outstanding Examples, W.A. Shurcliff. Andover, MA: Brick House Publishing Company, 1978.) 293 pages, $8.95.
Describes 120 existing solar heated buildings, with emphasis on simple, reliable, and less costly systems, and includes family homes, schools and colleges, office buildings, a church, community buildings, arboreta, a greenhouse, and an aquaculture dwelling.

1565
Solar Heat for Your Home, Arthur Las-

sagne. (Alamo, CA: Gold Bug Press, 1978. 48 pages, $3.30.
Offers an overview of solar heating written in nontechnical language for the layperson. It describes systems and components, expectations for cost and performance, and directs the reader to sources of further information.

1566
Solar Heating and Cooling Analysis Methods. (Golden, CO: Solar Energy Research Institute, 1978.) 10 pages.
Describes 15 common analysis methods that have been developed for various solar applications. The methods range from computer simulations to handheld programmable calculator applications. Each analysis method is described and a contact source given, as well as the cost to use/buy, and other general data. The methods apply to active and passive systems.

1567
Solar Heating and Cooling Engineering, Practical Design, and Economics, J. F. Kreider et al. (New York, NY: McGraw-Hill Book Company, 1977.) 342 pages, $24.95.
Offers a practical textbook on how to design solar energy systems for heating and cooling buildings. The five chapters contain information on solar and conventional energy concepts and requirements, fundamental principles of heat transfer and the nature of solar radiation, methods for solar energy collection and use, and detailed quantitative descriptions of practical systems for solar heating and cooling with an analysis of their economic feasibility.

1568
Solar Heating and Cooling of Buildings, Richard S. Greeley. (Ann Arbor, MI: Ann Arbor Science Publishers, 1981.) $39.95.
Discusses advantages and disadvantages of solar energy for heating and cooling buildings. Gives practical advice on collectors, system selection and requirements, heat storage and legal and financial considerations.

1569
Solar Heating and Cooling of Residential Buildings: Design of Systems, Colorado State University. (Washington, DC: U. S. Government Printing Office, 1977.) $8.25.
Covers the basics of heating and cooling designs using solar energy.

1570
Solar Heating Design by the F-Chart Method, W.A. Beckman et al. (New York, NY: John Wiley and Sons, 1977.) 200 pages, $14.95.
Offers a practical method for sizing solar space and water-heating systems.

1571
Solar Heating Systems: Analysis and Design with the Sun-Pulse Method, Gordon Tully. (New York, NY: McGraw-Hill Book Company, 1981.) 222 pages, $23.95.
Using a low-temperature, liquid-cooled system as a model, the author presents a broad overview tempered by experience and a mathematical analysis of each component in a solar heating system.

1572
Solar Here and Now. (Sacramento, CA: California Energy Commission, 1978.) 23 pages.
Emphasizes the current widespread use of solar energy systems in California, with black-and-white photographs illustrating solar heated swimming pools and attractive solarhomes in the state. The California Solar Tax Credit benefits are explained.

1573
The Solar Home Book: Heating, Cooling and Designing with the Sun, Bruce Anderson. (Andover, MA: Brick House Publishing Company, 1979.) $9.50, paper.
Introduces the layperson to residential uses of solar energy. Among the topics discussed are the fundamentals of solar energy, principles of ecodesign architecture, calculations for energy flows around the house, heating and cooling systems and components, direct and indirect systems, integrated solar systems, and solar hot water systems.

1574
Solar Homes and Sun Heating, George Daniels. (New York, NY: Harper and Row Publishers, Inc., 1976.) 178 pages, $12.95.
Tells about heating homes with the sun.

1575
Solar Hot Water Heater. (Salem, OR: Oregon State Community Services Program, 1978.) 81 pages, free.
Describes a thermosiphon system which operates without pumps and controls and provides one-fourth of the hot water needs for a family of four. The materials cost is approximately $300. The introduction discusses the theory of energy and solar hot water heating as well as relevant Oregon codes and building permits.

1576
Solar Hot Water and Your Home. (Silver Springs, MD: Conservation and Renewable Energy Inquiry and Referral Service, 1978.) 20 pages.
Covers the basic facts about solar hot water heating, pointing out technical information the prospective buyer should know.

1577
Solar Houses: 48 Energy-Saving Designs, L. Gropp. (New York, NY: Pantheon Books, 1978.) 160 pages, $8.95, paper.
Compiles descriptions of some of the houses that are being built as a result of people attempting to get some of the residential heat from the sun.

1578
Solar Law: Present and Future, with Proposed Forms, Stanley F. Kraemer. (New York, NY: McGraw-Hill Book Company, 1978.) 364 pages, $35.
Provides a practical and legal analysis of future issues expected to evolve with the increased use of solar power. Reviews laws concerning easements, covenants, zoning, land-use regulations, public and private nuisance, eminent domain, the appropriation doctrine, etc.

1579
Solar Primer One, B. Carlson. (Whittier, CA: SOLARC, 1975.) 101 pages, $10.95.
Presents basic solar applications and building design with discussions of collectors, structure, heat transfer, storage and total heating and cooling systems.

1580
Solar Power: Facts About Solar Energy, S. Gadler. (Minneapolis, MN: Lerner Publications Company, 1978.)
Tells about historic uses of solar power and the advantages and disadvantages of solar energy.

1581
Solar Reliant Greenhouse Plans, Domestic Technology Institute. (Evergreen, CO: Solstice Publications.) $7.50.
Tells plans for a 12-x-16 foot greenhouse designed to meet existing building codes, and to provide nutritionally-superior, inexpensive, year-round vegetables and plants for a family of five.

1582
Solar Retrofit: Adding to Your Home, Daniel K. Reif. (Andover, MA: Brick House Publishing Company, 1981.) 220 pages, $8.95, paper.
Explains the theory behind three types of solar heating and demonstrates their practical application. Clearly-detailed, easy-to-read instructions, coupled with formulas for probable heat loss and solar heat gain, make up an effective presentation on the building and installation of thermosiphoning air panels, horizontal air-flow panels, and an attached (to the house) greenhouse.

1583
Solar Room, Doug Taff. (Charlotte, VT: Garden Way Publishing Company, 1976.) 15 pages, $9.95.
Contains plans and a materials list to construct a solar room, which can be attached to an existing structure or be freestanding. The plans include a description of how the solar

room works, consideration of size, and step-by-step construction details.

1584
Solar Science Projects for a Cleaner Environment, Daniel S. Halacy, Jr. (Englewood Cliffs, NJ: Scholastic Book Services, 1974.) 96 pages, 95 cents.
Gives easy-to-understand explanations for seven solar projects: concentrating cooker, solar still, fresnel lens furnace, solar oven, flat plate water heater, solar motor, and sunpowered radio. Each project has a materials list, plans, and instructions for building and assembling.

1585
The Solar Self-Help Book, Austin Canon. (Albuquerque, NM: Southwest Research and Information Center, 1978.) 40 pages, $3.50.
Covers insulation, tools, solar energy, windows, shutters, thermal mass, venting, shading, Trombe walls, window boxes, greenhouses, hot boxes, water heaters, retrofits, materials, glazing, energy conservation, and rock heat storage.

1586
Solar '77, Gene Wenzel. (Washington, DC: U.S. Government Printing Office, 1978.) 38 pages, $1.80.
Provides basic knowledge of conservation and system features for an efficient, cost-effective solar dwelling. It covers new home design and retrofit applications.

1587
The Solar Survey. (Butte, MT: National Center for Appropriate Technology, 1979.) 21 pages, free.
Includes descriptions of 33 low-cost, community-built (and do-it-yourself) solar collectors.

1588
Solar Survival Solar Frame. (Harrisville, NH: Solar Survival.) $6.50.
Offers plans for constructing a passive solar growing frame with insulating shutter and three 30-gallon drums for storage.

1589
Solar Systems in B. C.: A Step-By-Step Guide To Help You Build Your Own Solar Water Heater, British Columbia Hydro. (Harrisville, NH: Total Environmental Action, 1978.) 97 pages, $2.
Describes how to build a solar water heater.

1590
Solar Thermosiphon Systems, D. Lawrence, (Springfield, VA: National Technical Information Service, 1978.) 54 pages, $5.25.
Tells about a class conducted by the county of Maui for the Maunaolu Vocational/Educational Program at Maunaola Campus, Island of Maui, State of Hawaii.

1591
Solar Water Heater, D.B. Fritz. (Mt. Rainier, MD: Volunteers in Technical Assistance, 1979.) 15 pages, $2.95.
Tells how simple, low-cost thermosiphon water heater can provide up to 70 liters of hot water per day on sunny days. Step-by-step construction procedures.

1592
The Solar Water Heater Workshop Manual. Ken Eklund et al. (Seattle, WA: Ecotope Group, 1979.) 82 pages, $5.75.
Offers description of how to build a solar water heater and how to organize a workshop to instruct others to build one. The heater described is a thermosiphon design which costs about $600 to build.

1593
Solar Water Heating for the Handyman, Steven Paige. (Barrington, NJ: Edmund Scientific Company, 1974.) 32 pages, $4.
Describes the components and operation of solar water heaters for the interested homeowner, emphasizing thermosiphon and storage/collector heaters under pressure.

1594
Sources of Funds for Solar Activists, Anita Gunn. (Washington, DC: Center for Renewable Resources, 1978.) 32 pages, $4.50 .
Identifies government and private sources

for renewable energy projects and explains how to approach those sources. Contains a bibliography on fund raising.

1595
State and Local Solar Energy Policy: Meeting Low-Income Needs, Alan Okagaki. (Washington, DC: Conference on Alternative State and Local Policies, 1981.) 36 pages, $4.95.
Suggests that the low-income people look toward state and local solar financing programs, and evaluates tax incentives, consumer loans, grant programs and financing for solar businesses in the low-income areas.

1596
State Solar Legislation. (Silver Spring, MD: Conservation and Renewable Energy Inquiry and Referral Service, 1978.) 11 pages, free.
Provides summaries of state solar legislation as of July 1978. It describes the legislation under categories including 1) Financial Incentives, 2) Solar Access, 3) Standards for Solar Systems, and 4) Building Code Provisions.

1597
Successful Solar Energy Solutions, Spruille Braden, III et al. (New York, NY: Van Nostrand Reinhold, 1980.) 302 pages, $24.50.
Offers will-illustrated existing solar applications for homes, institutions, and offices.

1598
Sun! A Handbook for the Solar Decade, Stephen Lyons, Ed. (San Francisco, CA: Friends of the Earth, 1978.) 364 pages, $2.95.
Contains 21 essays, which reflect on solar energy and the future. Contributors include Amory Lovins, Denis Hayes, and Ivan Illich.

1599
Sun Angles for Design. (Bala Cynwyd, PA: Robert P. Bennett, Architect and Engineer, 1978.) 77 pages, $6.
Shows sun angle data in chart form to simulate the sun's motion across the sky and show its position for any time of day and any day of the year.

1600
The Sun Betrayed, Ray Reese. (Boston, MA: South End Press, 1979.) $5.50, paper.
Tells the case study of conflict between small business interests and interests of federal agencies in development of solar energy and its small-scale applications.

1601
Sun Power, Norman Smith. (New York, NY: Coward, McCann and Geoghegan, 1976.) $4.95.
Tells the importance of the sun to all living things.

1602
Sun Power: An Introduction to the Applications of Solar Energy, J. C. McVeigh. (Elmsford, NY: Pergamon Press, 1977.) 208 pages, $4.95.
Offers a state-of-the-art publication in non-technical language; covers all aspects of solar energy.

1603
Sun Reflectors, John N. Cole et al. (Emmaus, PA: Rodale Press.) 208 pages, $10.95, paper.
Offers a celebration of the sun -- its past, present, and future. This book explores the individual's dependence on the sun as well as the sun's universal influence.

1604
Sun Up to Sun Down: Understanding Solar Energy, Shawn Buckley. (New York, NY: McGraw-Hill Book Company, 1979.) 165 pages, $6.95.
Gives introduction to solar energy.

1605
Sunlight to Electricity, Joseph A. Merringan. (Cambridge, MA: MIT Press, 1975.) 163 pages, $5.95, paper.
Tells of problems that face general use of photovoltaic converters as an energy source. Presents a good survey of the general properties of photovoltaics and production processes.

1606
Sunset Homeowner's Guide to Solar Heating,

Sunset Books and Magazine, Eds. (Menlo Park, CA: Lane Publishing Company, 1978.) 96 pages, $4.95.
Introductory work on solar, also gives excellent examples of how attractive most solar homes can be.

1607
Sunspots: Collected Facts and Solar Fiction. Steve Baer. (Albuquerque, NM: Zomeworks Corporation, 1977.) 146 pages, $4.
Provides a collection of "stream of consciousness" essays which recount the experiences of the author's firm, Zomeworks Corporation, in experimentation, design, and construction of solar energy systems during the past 10 years.

1608
A Survey of Passive Solar Buildings, American Institute of Architects Research Corporation. (Washington, DC: U.S. Government Printing Office, 1978.) 176 pages, $3.75.
Surveys almost 100 passive solar buildings throughout the United States. For each building there are pictures, climatic data, brief description of the building solar system, and a performance evaluation.

1609
Survival Greenhouse -- and Eco-System Approach to Home Food Production, James B. DeKorne. (Culver City, CA: Peace Press, 1978.) 165 pages, $7.95.
Offers reference on small-scale food production, including hydroponic systems, chemical and organic.

1610
Thermal Storage Wall Design Manual, Alex Wilson. (Albuquerque, NM: New Mexico Solar Energy Association, 1979.) 40 pages, $4.50.
Offers an all-purpose manual for new construction or retrofitting a Trombe wall.

1611
Tilly's Catch-A-Sunbeam Coloring Book, Tilly Spetgang. (Cherry Hill, NJ: Solar Service Corporation, 1975.) 29 pages, $1.50. primary.
Teaches about solar heat and how it works. It is a humorous, appealing way for youngsters to learn about a topic that will have a great impact on their lives.

1612
To Will One Thing: Solar Action At The Local Level. (New York, NY: Unipub, 1980.) $25.
Tells of successful case histories and practical applications.

1613
Two-Week Training Program for Building Solar Thermosiphon Domestic Water-Heating Systems, S. Upton et al. (Springfield, VA:National Technical Information Service,1977.) 73 pages, $5.25.
Provides training in building solar thermosiphon systems.

1614
Use Solar Daylight and Heat. (Pittsburgh, PA: PPG Industries.) 18 pages, free.
Shows how carefully-designed windows are cost-effective and capable of saving energy and money.

1615
Village Homes' Solar House Designs, A Collection of 43 Energy-Conscious House Designs, David Bainbridge et al. (Emmaus, PA: Rodale Press.) 192 pages, $7.95, paper.
Tells about a solar subdivision and provides insight into what is to come in housing developments. Readers learn about energy-efficient, solar heated and cooled housing designed for middle-income families.

1616
Your Home's Solar Potential: The Do-It-Yourself Solar Survey, Irwin Spetgang et al. (Barrington, NJ: Edmund Scientific Company, 1976.) 60 pages, $9.95.
Presents a do-it-yourself survey to rate your existing home's solar potential. By answering the questions and filling out the score sheet you can obtain a customized evaluation of your home's solar potential and determine the solar system most suitable for your home.

1617
Your Solar Energy Home, D. Howell. (Elmsford, NY: Pergamon Press, 1979.) 231 pages, $8.80.
Provides examples of solar water and space heating applications, including information about solar energy use in other countries.

Renewable/Alternative

1618
Alcohol Fuel Handbook, Michael R. Kerley. (Henderson, NC: Mother Earth Bookshelf.) 120 pages, $12.95, paper.
Tells how to make alcohol fuel.

1619
Alcohol Fuel Plants. (Washington, DC: U. S. Department of the Treasury, 1980.) 16 pages.
Highlights portions of the crude oil windfall profit tax act of 1980 to provide information on the permits necessary for producing alcohol for fuel use.

1620
The Alcohol Fuels Report: A Complete Guide to Ethanol Production, Southeastern Gasohol Association. (Henderson, NC: Mother Earth Bookshelf.) 160 pages, $17.95, paper.
Provides a technical report that is a "must" for anyone seriously interested in producing ethanol. Lots of charts, tables, and references that are not readily available elsewhere.

1621
Alcohol Fuels: Use, Principle, Economics, Steven J. Winston. (Golden, CO: Solar Energy Research Institute.) free.
Offers student's text and teacher's guide focusing on 12 alcohol fuels production topics, designed for use in two-year colleges with substantial technical appendix.

1622
American Jobs From Alcohol Fuel, Marion Anderson et al. (Lansing, MI: Employment Research Associates.) $3, 13 pages.
Shows over 960,000 new jobs would be created by the installation and operation of $12 billion worth of alcohol fuel plants making six billion gallons of fuel per year.

1623
At Home with Alternative Energy: A Comprehensive Guide to Creating Your Own Systems, Michael Hackleman. (Culver City, CA: Peace Press, 1980.) $8.95.
Examines systems using five major alternative energy sources; solar, wind, wood, water and methane.

1624
Auto Fuels of the 1980's, Jack Frazier. (Dover, NH: Solar Age Press, 1978.) 71 pages, $3.95.
Concentrates on methane and methanol as gasoline substitutes. Describes existing methods for extracting methane from coal mines, lists its advantages over gasoline, notes how to obtain conversion kits, and speculates on future methane development, as well as covers methanol analyses and explores the feasibility of producing it via coal, waste, and photosynthesis.

1625
The Biogas Handbook, D. House. (Henderson, NC: Mother Earth Bookshelf.) 403 pages, $10.95, paper.
Provides a comprehensive survey of the theory and practice of biogas production, discusses the scientific terms used, the substances (such as manure and plant matter) which can produce biogas, and various types of biogas generators.

1626
Bio-Gas Plant, Ram Bux Singh. (Hendersonville, NC: Mother Earth Bookshelf, 1975.) 94 pages, $10, paper.
Tells about bio-gas plants, explaining their design, function, operation, and economics.
The second section contains drawings with specifications for 20 different types and sizes of bio-gas plants suitable for cold and temperate climatic areas.

1627
Biogas Production from Animal Manure, H. M. Lapp, et al. (Winnipeg, Canada: Biomass Energy Institute, Inc., 1978.) 20 pages, free.
Acquaints farmers with energy production from farm animal manure. There is a discussion of anaerobic digestion principles.

1628
Biological Paths to Self-Reliance, Russel E. Anderson. (New York, NY: Van Nostrand Reinhold, 1979.) $18.95.
Presents social implications and development potential of biological solar energy conversion and also focuses on technical basis, to better inform officials responsible for technical development.

1629
Biomass: Applications, Technology, and Production, N.P. Cheremisinoff, et al. (New York, NY: Marcel Dekker, Inc., 1980.) 221 pages, $29.50.
Offers a technical overview of biomass as an energy resource. The chapters cover such topics as: the earth's energy cycle; socio-economic and environmental factors; sources of biomass; biomass combustion; charcoal, methane, and methanol production; ethanol and other alcohols; and energy supplies from sea farming.

1630
Biomass Energy Success Stories: A Portfolio Illustrating Current Economic Uses of Reusable Biomass Energy. (Winnipeg, Canada: Biomass Energy Institute, 1978.)
Describes successful biogas projects.

1631
Biomass in Southeastern Forests, Joe P. McClure et al. (Asheville, NC: Southeastern Forest Experiment Station, U. S. Department of Agriculture.) $7.50, paper.
Reports on distribution of some 6.2 million green tons of woody biomass in the Southeast.

1632
Biomass: Solar Energy From Farms and Forests, A. Grae. (Golden, CO: Solar Energy Research Institute, 1979.) 12 pages, $5.
Provides some basic information on the nature and uses of biomass as energy.

1633
Brown's Alcohol Motor Fuel Cookbook, Michael Brown. (Henderson, NC: Mother Earth Bookshelf, 1979.) 140 pages, $9.95.
Offer well-illustrated, practical applications of alcohol carburetion.

1634
Build A Yurt: The Low-Cost Mongolian Round House, Len Charney. (Henderson, NC: Mother Earth Bookshelf.) 134 pages, $6.95, paper.
Offers knowledge needed to erect this efficient and economical shelter.

1635
A Chinese Biogas Manual, Michael Crook. (Henderson, NC: Mother Earth Bookshelf.) 135 pages, $9.95, paper.
Reflects the well-developed Chinese technology for generating and using methane from human, animal, and plant wastes. How to build digesters and operate them safely.

1636
Cloudburst, Vic Marks, Ed. (Seattle, WA: Madrona Publishers, Inc., 1977.) 128 pages, $5.95, paper.
Offers overview of renewable energy sources for small-scale use.

1637
Commercial Uses of Geothermal Heat. (Davis, CA: Geothermal Resources Council, 1980.) $10.
Tells about resource development, geothermal systems, exploration, and economics for researchers and engineers.

1638
Common Sense Wind Energy, Jack Park et al. (Sacramento, CA: California Energy Commission, 1981.) 70 pages, $3.50.
Offers the professional the fundamentals of wind energy.

1639
A Community Project in Alternate Energy: Epoch B, Janet Gilles. (Evanston, IL: Evanston Environmental Association, 1978.) 112 pages, $3.50.
Documents the efforts of an ever-evolving group of citizens in Evanston, Illinois. They began an informal process of discussing what could be done to live more compatibly with the environment and ended up with a full-fledged community-scale program to address many aspects of that issue, and a solar system was added to the local ecology center.

1640
The Complete Book of Heating with Wood, Larry Gay. (Charlotte, VT: Garden Way Publishing Company, 1974.) 128 pages, $3.95.
Covers the environmental impact of burning fuel woods. There are descriptions of old and modern stoves and other woodburners. The last chapter offers advice on placement of woodburners and hints for increasing efficiency.

1641
The Consumer's Guide to Wood Heat: Firefacts, J. Kipp. (Taftsville, VT: Countryman Press, 1980.) 245 pages.
Discusses many aspects of heating with wood, from the cultivation of woodlots to the selection of an appropriate wood heat unit. Safety factors are stressed with respect to use of a chain saw and installation and use of a fireplace, stove, or furnace. A comprehensive buying guide is also provided.

1642
Cordwood Barn. (Henderson, NC: Mother Earth Bookshelf.) $15.
Tells how to build this low-cost outbuilding on your property and put it to many homestead uses. The structure is earth-sheltered concrete block on two sides with stackwood walls completing the barn's functional 32-x-45-foot plan.

1643
The Costs of Using Crop Residues in Direct Combustion Applications, S. Flaim et al. (Golden, CO: Solar Energy Research Institute, 1980.) 43 pages, $5.25.
Looks at the economic feasibility of burning crop residues for on-farm grain drying, grain drying at a grain elevator, and electricity generation at a utility plant.

1644
Decisionmaker's Guide to Wood Fuel for Small Industrial Energy Users: Final Report, M. P. Levi et al. (Golden, CO: Solar Energy Research Institute, 1980.) $14.
Offers a handbook on the use of wood as an industrial fuel. Document covers a wide variety of topics including storage and handling of materials, economics, combustion equipment, and pollution abatement. A directory of equipment suppliers and a bibliography on wood as fuel are included as appendices.

1645
Design and First Year Operation of a 50,000 Gallon Anaerobic Digester at the State Honor Dairy Farm, Elizabeth Coppinger et al. (Seattle, WA: Ecotope Group, 1978.) 87 pages, $5.75.
Summarizes the results of a farm demonstration of anaerobic digestion of animal manure.

1646
Direct Utilization of Geothermal Energy: A Layman's Guide, (Davis, CA: Geothermal Resources Council, 1979.) $8.
Provides comprehensive report on geothermal energy, its development, usage, economics, financing, and regulation.

1647
Direct Utilization of Geothermal Energy: A Technical Handbook, (Davis, CA: Geothermal Resources Council.) $10.
Offers a practical approach, and comprehensive technical information.

1648
Driving Without Gas, John Lincoln. (Charlotte, VT: Garden Way Publishing Company, 1980.) 160 pages, $5.95, paper.
Tells about fuel alternatives including gasohol,

ethanol, and methanol.

1649
Earth Power: The Story of Geothermal Energy, M. Yates. (Nashville, TN: Abingdon Press, 1980.) 64 pages, $7.95, primary.
Written for elementary school students, this book defines geothermal energy and explains where and how it originates.

1650
Electric Power from the Wind, Henry Clews. (East Holden, ME: Solar Wind Company, 1973.) $2.
Has a non-technical introduction to small-scale systems.

1651
Energy, the Biomass Options, Henry R. Bungay. (New York, NY: John Wiley and Sons, 1981.) 448 pages, $22.50.
Offers a technical book for layperson and engineer.

1652
Energy Use on the Farm, James Ritchie et al. (Farmington, MN: Structures, 1981.) 400 pages, $24.95.
Offers comprehensive text on alternate energy methods.

1653
Ethanol Production and Utilization for Fuel. (Lincoln, NE: University of Nebraska, 1979.) 83 pages, $2.
Tells about processes and economics for farm-scale operations.

1654
Fermentation Guide for Common Grains: A Step-By-Step Procedure for Small Scale Ethanol Fuel Production, Solar Energy Research. (Washington, DC: U.S. Government Printing Office, 1981.) $2.75.
Offers a guide to making fuel alcohol.

1655
Financing of Private Small Scale Hydroelectric Projects: A Summary Guide. (Springfield, VA: National Technical Information Service, 1981.) 13 pages, $5.
Tells about getting financial support for hydroelectric projects.

1656
Fire Safety of Wood-Burning Appliances (Volume I), National Bureau of Standards. (Springfield, VA: National Technical Information Service.) $7.
Offers a report from the National Bureau of Standards detailing the findings of 28 full-scale fire tests of five different woodburners. The study concludes that current safety codes – based on test data almost 40 years old – may need to be updated.

1657
Fireplace Stoves, Hearths, and Inserts: A Coal and Wood-burner's Guide and Catalog, Geri Harrington. (New York, NY: Harper and Row, Publishers, 1980.) 178 pages, $8.95, paper.
Provides advice about which types of wood are the most efficient to burn, what to look for when buying wood, and how to start a woodlot, as well as pointers for building and maintaining a wood fire. In addition, she supplies information for those interested in using coal as a heat source.

1658
Fireplaces: Adding, Improving, Heat-Saving Systems, Wood Stoves, Robert Jones et al. (Milwaukee, WI: Creative Homeowner Press, 1981.) 128 pages, $6.95, paper.
Covers a wide range of topics from decorating and renovating to installation and successful operation.

1659
Fuel Alcohol: An Energy Alternative for the 1980s. (Washington, DC: U. S. Government Printing Office, 1981.) $4.25.
Reports on the U. S. National Alcohol Fuels Commission findings and recommendations regarding possible alcohol fuels contributions to national domestic energy supplies, costs/benefits of developing alcohol fuels, end-product use, and federal policies/programs that affect development.

1660
Fuel Alcohol: How To Make It, How To Use It, James R. Ross. (New York, NY: St. Martin's Press, 1981.) 160 pages, $4.95, paper.
Written for the do-it-yourselfer, the book includes a discussion of the economics of fuel production. Various sources for feedstock are given and alcohol yield for each is presented.

1661
Fuel Alcohol Production: A Selective Survey of Operating Systems. (Butte, MT: National Center for Appropriate Technology, 1981.) $2.
Describes eight alcohol production systems in detail. The systems, which use a variety of feedstocks and vary considerably in production capacity and cost, are representative of the state of development in small-scale alcohol systems.

1662
Fundamentals of Wind Energy, Nicholas P. Cheremisinoff. (Ann Arbor, MI: Ann Arbor Science Publishers, 1978.) $8.95.
Offers overview of potential of wind as energy source and discusses types of wind machines, performance and design characteristics, site selection and storage and environmental considerations.

1663
Furnace/Vacuum Still. (Henderson, NC: Mother Earth Bookshelf.) $15.
Tells how to build this state-of-the-art alcohol fuel still that delivers a continuous flow of up to 185-proof ethanol. Plans detail how to design, build, and operate the system.

1664
The Gasohol Handbook, V. Daniel Hunt. (New York, NY: Industrial Press, 1981.) 580 pages, $29.50.
Tells about gasohol, a blend of ethanol and unleaded gasoline that is an attractive short-term option for producing synthetic fuel, thus reducing our dependence on foreign oil.

1665
Gasohol: A Technical Memorandum. (Washington, DC: Office of Technology Assessment, 1979.) 71 pages.
Covers the technical and non-technical issues surrounding the development of gasohol. It discusses the resource base, production technologies, and economics of gasohol, and its use as a transportation fuel.

1666
Generation of Electricity by Wind Power, E. W. Golding. (New York, NY: Methuen, Inc., 1976.) 332 pages, $19.95.
Provides a comprehensive review of wind characteristics and wind distribution patterns.

1667
Geothermal Energy, H. Christopher. (Davis, CA: Geothermal Resources Council, 1978.) $35.
Presents basic theories, practical development, and applications in the fields of exploration, usage, and economics.

1668
Geothermal Energy, J. R. Justus. (Washington, DC: Library of Congress, 1975.) 16 pages.
Describes geothermal energy resources and their potential power-generating capacity, followed by brief mention of environmental problems, policy issues, and legislation pertinent to the subject.

1669
Geothermal Energy Utilization, Edward F. Wahl. (New York, NY: John Wiley and Sons, Inc., 1977.) $29. 95.
Tells about discovery, development and use of geothermal energy.

1670
Getting More Heat from Your Fireplace, Paul Bortz. (Charlotte, VT: Garden Way Publishing Company, 1981.) 144 pages, $6.95, paper.
Presents the many methods and products available for enhancing fireplace efficiency. Suggestions range in cost and complexity

for simply building better fires to selecting and installing doors, inserts, and stoves.

1671
Goosen's Etoh Fuel Book, Clarence Goosen et al. (Henderson, NC: Mother Earth Bookshelf.) 194 pages, $30.
Offers highly technical manuals for those seriously interested in ethanol fuel production. Issue I ($10) covers principles, procedures, and equipment. Issue II ($10) discusses yeast and types of distillation columns, and presents plans for building a packed vacuum column and a tank-within-a-tank still. Issue III ($10) deals with the vacuum still, and begins a series on the carburetor conversion of gasoline engines to use alcohol.

1672
A Guide to Commercially Available Wind Machines. (Rocky Flats, CO: Rockwell International, 1978.)
Provides information on the machines being sold to produce wind energy.

1673
Guidelines on Purchasing Alcohol Fuel Equipment. (Denver, CO: National Farmers Union, 1980.) 7 pages.
Contains tips, general information, and advice relevant to purchasing any type of equipment to make alcohol fuels.

1674
Handbook of Homemade Power, **Mother Earth News.** (New York, NY: Bantam Books, Inc., 1974.) 374 pages, $1.95.
Focuses on the details of building devices which use alternative sources of energy. It covers heating and cooking with wood, construction and operation of water wheels and wind generators; solar heat, showers, and ovens; and methane digesters.

1675
Harnessing the Wind for Home Energy, Dermot McGuigan. (Charlotte, VT: Garden Way Publishing Company, 1978.) $4.95, paper.
Describes types of windmills, batteries, etc. Lists manufacturers and restorers, description of products, agents and enthusiasts.

1676
Harnessing Water Power for Home Energy, Dermot McGuigan. (Charlotte, VT: Garden Way Publishing, 1978.) $4.95, paper.
Describes all types of material related to micro-hydropower. Gives examples of installations of various types of water wheels and turbines.

1677
Heating Your Home with Wood, Neil Soderstrom. (New York, NY: Harper and Row Publishers, Inc., 1978.) 199 pages, $3.95.
Provides an A-to-Z panorama of wood heat. The test runs from scientific principles of woodburning to practical considerations of wood heat.

1678
Helion Model 12/16 Windmill Plans, Helion Inc. (Henderson, NC: Mother Earth Bookshelf.) 40 pages, $15, paper.
Provides plans for building your own wind mill.

1679
Home Wind Power, U.S. Department of Energy. (Henderson, NC: Mother Earth Bookshelf.) 203 pages, $10.95, paper.
Provides a general introduction to wind power.

1680
The Homebuilt, Wind-Generated Electricity Handbook, Michael Hackleman. (Culver City, CA: Peace Press, 1975.) $8.95.
Do-it-yourself, nuts and bolts approach, including sections on restoring machines and control systems.

1681
Homemade Six-Volt Wind-Electric Plants, H. F. McColly et al. (Henderson, NC: Mother Earth Bookshelf.) 19 pages, $1.25, paper.
Tells about creating your own power supply from wind.

1682
The How-To Book for Woodcutters, E. M.

Barr. (Forest Grove, OR: Hydra Book Company, 1981.) 192 pages, $5.95, paper.
Covers general information on cutting your own wood safely.

1683
How to Make Home Electricity from Wind, Water, and Sunshine, John A. Kuecken. (Portsmouth, OH: Earth Shelter Bookstore.) 252 pages, $5.95.
Starts with basics, and given in-depth treatment on batteries, DC to AC conversion, inverters and controls.

1684
How To Make Your Own Alcohol Fuels, Larry Carley. (Blue Ridge Summit, PA: Tab Books.) $9.95.
Provides a handbook to making alcohol fuel.

1685
How To Power a Gasoline Engine with Wood, K. M. Eoff et al. (Henderson, NC: Mother Earth Bookshelf.) 13 pages, $4.50, paper.
Offers a reprint of a technical report that details a project conducted at the University of Florida: A six-cylinder pickup truck was converted to run on combustible gas created by burning wood.

1686
A Learning Guide for Alcohol Fuel Production, National Alcohol Fuel Producers Association. (Colby, KS: Colby Community College, 1979.) 341 pages, $25.
Offers a text on alcohol fuel production. Various sections describe the history, chemistry, biology, feedstocks, economics, and operations of alcohol fuel production.

1687
Low-Cost Development of Small Water-Power Sites, H. W. Hamm. (Mt. Rainier, MD: VITA, 1967.) 43 pages, $2.95.
Gives information for every step in the process of developing small-scale hydropower sites. Descriptions are included of water wheels, a small 12-inch-diameter crossflow turbine and the Pelton wheel. Small earth dam construction is also covered.

1688
Making Alcohol Fuel -- Recipe and Procedure, Lance Cromble. (Minneapolis, MN: Rutan Publishing, 1979.) 111 pages, $8.
Offers a handbook on alcohol production, includes plant design, processes, raw materials, engine modifications, and alcohol use.

1689
Making Fuel In Your Back Yard, Jack Bradley. (Wenatchee, WA: Biomass Resources, 1979.) 63 pages, $10.95.
Offers down-to-earth information by person who built the small still he is writing about. Written in narrative form with easy instructions and useful drawings and pictures.

1690
Makin' It On The Farm, Micki Nellis. (Iredell, TX: American Agriculture Movement, 1979.) 88 pages, $2.95.
Offers a step-by-step guide to production of fuel ethanol from farm crops. Includes success stories, information on regulations, cost figures for stills, contracts for equipment, engine modifications, information and suggestions for starting out.

1691
Making Wine, Beer and Merry, Kathleen Howard (Fostoria, OH: Popular Topics Press, 182 pages, $4.50.
Explains the fermentation process for beverage drinks in an easy-to-understand manner. The book is good for the beginner -- before one starts fuel production.

1692
The Manual for the Home and Farm Production of Alcohol Fuel, S. A. Mathewson. (Henderson, NC: Mother Earth Bookshelf.) 200 pages, $7.95, paper.
Includes plans for making mashing and fermentation equipment, a high-volume still, and a solar still.

1693
Methane Digesters for Fuel Gas and Fer-

tilizers, L. John Fry. (Santa Barbara, CA: L. John Fry, 1973.) 47 pages, $4.
Offers complete instructions for two working models.

1694
Methane Generation and Recovery from Landfills. (Ann Arbor, MI: Ann Arbor Science Publishers, Inc., 1980.) 139 pages, $14.95.
Surveys the state-of-the-art of the theories and methodology related to landfill gas recovery. The specific topics covered include: the methane fermentation process, composition of municipal refuse, estimation of theoretical maximum yield, time dependency of gas production, gas flow in landfills, field testing of gas recovery from landfills, methods of recovering landfill gas and usage and processing of landfill gas.

1695
Methane: Planning a Digester, Pieter-John Meynell. (New York, NY: Schocken Books, Inc., 1976.) 150 pages, $4.50.
Describes the history and development of methane as an energy source, and assesses the merits of the various types of digesters, the gas itself and the residues.

1696
Methane Production from Waste Organic Matter, D. A. Stafford et al. (Boca Raton, FL: CRC Press, Inc., 1980.) 285 pages, $69.95.
Considers the process of anaerobic digestion of organic wastes for methane production from its biological, engineering, economics, process-control, and applications aspects.

1697
Methanol and Other Ways Around the Gas Pump, John Ware Lincoln. (Charlotte, VT: Garden Way Publishing Company, 1976.) 134 pages, $5.95.
Offers a resource book on automobile conversion to methanol fuels, methane and alternative engines.

1698
Methods for Siting Small Wind Machines, R. L. Drake. (Richland, WA: Battelle Pacific Northwest Laboratories, 1977.) 52 pages.
Considers the technical issues involved in siting wind energy conversion systems (WECS), especially the topographical and meteorological aspects.

1699
Micro-Hydro Power: Reviewing an Old Concept. (Butte, MT: National Center for Appropriate Technology, 1980.) $1.50.
Offers a basic introductory manual presenting general factors to consider in the design and development of a small micro-hydroelectric power station to provide electricity for an individual family or small community.

1700
Montana Geothermal Handbook -- A Guide to Agencies, Regulations, Permits and Financial Aids for Geothermal Development, S. Perlmutter et al. (Springfield, VA: National Technical Information Service.) 52 pages, $8.
Tells how to develop geothermal power.

1701
The Nation's Unused Wood Offers Vast Potential Energy and Product Benefits. (Washington, DC: Comptroller General of the U.S.) Write your congressional representative for a free copy. Covers the question of tapping unused wood for energy resources.

1702
Natural Energy Workshop 2, Peter Clark et al. (Berkeley, CA: Visual Purple, 1976.) 128 pages, $3.95.
Focuses on energy conservation through the application of renewable resources (sun, wind, water, and photosynthetic fuels). It gives simple experiments, which demonstrate the concepts of regenerative conversion in lay terms.

1703
The New, Improved Wood Heat, John Vivian, Ed. (Emmaus, PA: Rodale Press, 1978.) 428

pages, $7.95.
Tells about practical experience with wood fuel for heating and cooking.

1704
Other Homes and Garbage, Jim Leckie et al. (Totowa, NJ: Charles Scribner's Sons, 1975.) 302 pages, $9.95.
Presents a practical approach to alternative energy sources for decentralized application to residences. Subjects covered include alternative architecture, small-scale generation of electricity, solar heating, waste-handling, water supply systems, agriculture, and aquaculture.

1705
Pedal Power, James C. McCullagh, Ed. (Emmaus, PA: Rodale Press.) 144 pages, $6.95, paper.
Explores the potential for pedal-driven devices in the workshop, kitchen, on the farm, and for transportation.

1706
The Pegasus Unit: Petroleum/Gasoline Substitute Systems, Niels A. Skov et al. (Henderson, NC: Mother Earth Bookshelf.) 132 pages, $12.95, paper.
Tells about producer-gas systems for vehicles. Diagrams based on functional equipment show how ordinary internal-combustion engines can be converted to run on wood, peat, charcoal, or coal.

1707
Practical Building of Methane Power Plants for Rural Energy Independence, L. John Fry. (Henderson, NC: Mother Earth Bookshelf.) 96 pages, $12, paper.
Tells how to design and build your own displacement-type methane generating plant for homestead or large-scale use.

1708
Proceedings of the Second United Nations Symposium on the Development and Use of Geothermal Resources, (Washington, DC: U. S. Government Printing Office, 1976.) $48.
Provides information on production and distribution of geothermal electricity, drilling practices, equipment and power station plans, plant design, geothermal heating for industrial purposes, and greenhouse heating.

1709
Producing Your Own Power: How to Make Nature's Energy Sources Work for You, Carol Hupping Stover, Ed. (Emmaus, PA: Rodale Press, Inc., 1974.) 322 pages, $8.95.
Presents recent developments in alternative energy sources. Most of the contributors have designed and built their own small-scale power systems.

1710
"Profits From Wood Waste," **Wood and Wood Products,** February, 1982.
Describes wood furnaces that may relieve the burden of utility bills.

1711
Renewable Resources in Our Future, A. D. Hinckley. (New York, NY: Pergamon Press, 1980.) 121 pages, $6.75, paper.
Presents a readable assessment of the most important problems of renewable resource management. Includes solar energy, water, and soil, as well as terrestrial ecosystems.

1712
Resources for Building Wind Turbines. (Pierre, SD: Office of Energy Policy.)
Tells how to put together wind systems.

1713
Selecting Water-Pumping Windmills. (Las Cruces, NM: New Mexico Energy Institute, 1978.) 14 pages, free.
Describes the various parts of a water-pumping windmill, how they work, and variations of each. It lists factors to consider in selecting a windmill site and in choosing the right windmill.

1714
Shining Examples: Model Projects Using Renewable Resources, Kathleen Courrier et al, Eds. (Washington, DC: Center for Re-

newable Resources, 1980.) $6.95
Describes 150 innovative and successful local energy conservation and renewable resource projects. Gives information on each project's origin, funding source, location and guiding spirit.

1715
Simplified Wind Power Systems for Experimenters, Jack Park. (Mariposa, CA: Earthwind, 1975.) 80 pages $6.50.
Offers a simplified engineering handbook for the design and construction of wind machines.

1716
Small and Micro Hydroelectric Power Plants, Robert Noyes, Ed. (Park Ridge, NJ: Noyes Data Corporation, 1980.) $42.
Offers survey for utilities, investors, engineers and government agencies on feasibility and technology for hydroelectric power production of less than 15 megawatts.

1717
Small-Scale Fuel Alcohol Production. (Sacramento, CA: Solar Energy Information Services, 1980.) $32.95.
Covers economic and technical issues of small and medium-scale production of ethanol. Includes suitability, use profile, raw materials, by-products, manufacture and costs.

1718
Small Wind Energy Conversion Systems. (Pierre, SD: South Dakota Office of Energy Policy.) $2.
Offers overview with bibliography.

1719
Small Wind Systems Technology Assessment, W. S. Bollmeir et al. (Golden, CO: Rockwell International Corporation, 1980.) 85 pages, $9.50.
Tells about commercially-available small wind conversion systems, U. S. Department of Energy-funded prototype systems, and possible second-generation advanced concepts with respect to cost of energy, dollars per pound, kilowatt hours per year per pound, and kilowatt hours per year per square meter of rotor area.

1720
Soft-Tech, J. Baldwin. (Sausalito, CA: **The Co-Evolution Quarterly**, 1978.) 175 pages, $5.
Covers myriad appropriate technology topics including inventions, solar, wind, bicycling, biofuels and underground architecture, with product information and annotations of books interspersed throughout.

1721
Sunset Homeowner's Guide to Wood Stoves, Editors of **Sunset**. (Menlo Park, CA: Lane Publishing Company.) $3.95.
Tells where and how to buy a stove, how to install and use it, and where and how to obtain wood.

1722
Tree Crops for Energy Co-Production on Farms. (Springfield, VA: National Technical Information Service.) $10.95.
Covers growing types of trees to be used in obtaining energy.

1723
Water Turbine. (Henderson, NC: Mother Earth Bookshelf.) $15.
Offers a Mitchell-Banki-style turbine you can build for under $100. This versatile plan is especially suitable for low-head water sources.

1724
Wind and Windspinners: A Nuts 'n Bolts Approach to Wind-Electric Systems, Michael A. Hackleman et al. (Culver City, CA: Peace Press, Inc., 1974.) 140 pages, $8.95.
Offers how-to-do-it-yourself approach for a simple, electricity-generating windmill.

1725
Wind Energy, Tom Kovarik et al. (Northbrook, IL: Quality Book, Inc., 1979.) 150 pages, $6.95, paper.
Discusses the technical feasibility of using wind generators to produce electricity.

1726
Wind Machines, Frank Eldridge. (New York, NY: Van Nostrand Reinhold Company, 1980.) 214 pages, $6, paper.
Offers a state-of-the-art review of wind technology while also reviewing the economic, environmental, sociological and institutional aspects of wind energy.

1727
Windmill Power for City People, New York City Energy Task Force. (Washington, DC: U.S. Government Printing Office, 1977.) 65 pages, $2.60.
Records the experiences with an urban wind energy installation in New York City's Lower East Side. The machine generates electricity for the public space electrical circuits in a rehabilitated residential cooperative.

1728
Windmills and Watermills, John Reynolds. (New York, NY: Holt, Rinehart and Winston, 1970.) 196 pages, $8.95.
Traces the worldwide historical development of watermills and windmills within a social context, explaining how wind and water were used in a bygone era.

1729
Windpower, V. Daniel Hunt. (New York, NY: Van Nostrand Reinhold, 1981.) $39.50.
Gives comprehensive information on achievements, problems and potential of windpower. Provides data on design, development, siting, installation, operation and marketing of wind-energy systems, both large and small scale.

1730
Wind Power Book, Jack Park. (Menlo Park, CA: Cheshire Books, 1979.) 255 pages, $11.95, paper.
Covers fundamentals, design and perspectives for building small wind energy systems.

1731
Wind Power for Farms, Homes and Small Industry, Jack Park. (Springfield, VA: National Technical Information Service, 1978.) 163 pages, $9.25.
Offers thorough coverage of wind energy from the consumer's point of view. Topics covered include how wind turbines work, wind behavior and site selection, power and energy requirements, components of a wind energy conversion system (WECS), selecting your WECS system and figuring the cost of its power, and legal consideration.

1732
Wind Power for the Homeowner, A Guide to Selecting, Siting, and Installing an Electricity-Generating Wind Power System, Donald Marier. (Emmaus, PA: Rodale Press, Inc., 1981.) 320 pages, $12.95, paper.
Details how to install a wind-powered generator that will produce enough electricity for household needs. Choosing the correct system and the appropriate appliances for a specific homesite are thoroughly covered.

1733
Wind Power for Your Home: The First Complete Guide That Tells How to Make the Wind's Energy Work for You, George Sullivan. (New York, NY: Simon and Schuster, Inc., 1978.) 127 pages, $4.95.
Explains the potential of wind power for the average urban, suburban, and rural homeowner. Charts and graphs of average wind speeds throughout the United States enable reader to determine appropriate types and sizes of wind systems.

1734
Wood as an Energy Resource, D. A. Tillman. (New York, NY: Academic Press, 1978.) 252 pages, $19.
Evaluates wood fuels in terms of total energy policy. It traces the historical antecedents of current wood fuel consumption vis-a-vis other fuels, evaluates present use patterns, develops a fuel value analysis of wood, considers the methods best suited for using that fuel, and finally discusses the resources available for increasing the use of the wood energy resource.

1735
Woodburning Stove. (Henderson, NC: Mother

Earth Bookshelf.) $10.
Tells how to turn about $40 worth of materials into a "custom made" woodburner that's the equivalent of commercial models selling for up to $500. Heats 1,100 square feet, and you can even cook on it.

1736
The Wood-Burning Stove Book, Geri Harrington. (New York, NY: Macmillan Publishing Company, 1977.) 175 pages, $6.95, paper.
Tells how to select a wood-burning stove. Another chapter compares 52 stoves, fireplaces, and furnaces.

1737
The Woodcutter's Companion, A Guide to Locating, Cutting, Transporting and Storing Your Own Firewood, Maurice Cohen. (Emmaus, PA: Rodale Press, Inc.) 160 pages, $7.95, paper.
Shows how work can save money and be highly satisfying. The author's explicit directions for cutting explain how to avoid pinching the saw and splintering the wood, and his safety precautions keep woodcutters from getting into awkward positions in hazardous places.

1738
Wood Energy, David Holzman et al. (Washington, DC: Citizens' Energy Project, 1978.) 9 pages, 40 cents.
Surveys the current state of wood energy in the United States, including advantages and disadvantages of its use, and speculates on the feasibility of its increased use in the future. It provides an overview of government and community attempts to promote wood as an alternative energy source.

1739
Wood-Gas Generator. (Henderson, NC: Mother Earth Bookshelf.) $15.
Tells how to build a wood-gas generator powering a pickup truck and a basic heating-and-energy system for the home. The completed woodburner generates, cleans, cools, and mixes the gas before it is introduced into the engine.

1740
Wood Gas Generator for Vehicles, Nils Nygards. (Henderson, NC: Mother Earth Bookshelf.) 18 pages, $3, paper.
Describes how to convert a vehicle to run on gas produced by the partial combustion of wood chips.

1741
Wood Heat, John Vivian. (Emmaus, PA: Rodale Press, Inc.) 448 pages, $9.95, paper.
Shows how the masonry chimney is laid up, line drawings showing the safe and proper way to install an insulated stovepipe chimney, tips on evaluating the design and construction of any stove, and a visual guide to 22 of the most common North American fuel-wood trees.

1742
Wood Heat Safety, Jay W. Shelton. (Charlotte, VT: Garden Way Publishing Company, 1979.) $8.95.
Covers problems, safe installations of chimneys, fireplaces, and stoves, safe operation and maintenance, safe design, central wood heating, water heaters, mobile home installations, use of coal, safety-related products listing, and technical data on wood stoves.

1743
Wood Stoves: How to Make and Use Them, Ole Wik. (Henderson, NC: Mother Earth Bookshelf.) 194 pages, $5.95, paper.
Offers an all-inclusive guide to the construction and use of woodburning stoves.

DIRECTORIES

General

1744
A Bibliography on Electric Vehicles, F. Chin. (Monticello, IL: Vance Bibiographies, 1980.) 34 pages, $2.
Offers a selective bibliography and most of the citations are annotated.

1745
Building and Energy. (Butte, MT: National Center for Appropriate Technology, 1978.) 50 cents.
Offers an annotated bibliography, describing 37 publications in addition to selected periodicals and bibliographies to help in designing and retrofitting buildings for energy efficiency and solar heating.

1746
Catalog of Publications for 1982. (Butte, MT: The National Center for Appropriate Technology, 1982.)
Lists agency offerings.

1747
Citizens' Energy Directory. (Washington, DC: Citizens' Energy Projects, 1980.) 200 pages, $15.
Offers an annotated listing of about 600 individuals and groups working on alternative energy technologies in the U.S.

1748
Complete Catalogue of Mail-Order Kits, Anna Sequoia. (New York, NY: Rawson, Wade Publications, Inc., 1981.)
Lists sources for kits to make log and dome homes, tractors, helicopters, wool sweaters, a steam-powered bicycle, greenhouses and down comforters.

1749
Directory of Heat Processing and Combustion Equipment -- the Energy Edition. (New York, NY: Industrial Heat Processing Information Clearinghouse.)
Offers industrial resources on energy.

1750
Educational Materials Bibliography. (Santa Fe NM: New Mexico Solar Energy Association, 1978.) 4 pages, 50 cents.
Identifies materials specially developed for a variety of ages and educational settings.

1751
The EIA Publications Directory -- A User's Guide. (Washington, DC: U.S. Government Printing Office.) $4.75.
The Energy Information Administration offers a complete list of their periodicals, reports, microfiche files, and data tapes produced in 1980.

1752
Energy. (Washington, DC: National Aeronautics and Space Administration.) 352 pages, $15 quarterly.
Lists reports, articles, and other documents introduced into the NASA scientific and technical information system. A quarterly bibliography of energy sources, solar energy, energy conversion, transport and storage.

1753
"Energy," B.L. Fox and D. Waithe, **Library Journal**, 1981.
Offers a selected list of titles that covers many aspects of the issues and options being explored in the U.S. to solve energy and energy-related problems.

1754
Energy: A Guide to Organizations and Information Resources in the United States. (Claremont, CA: Public Affairs Clearinghouse, 1978.) 221 pages, $20.
Provides information on key organizations concerned with energy in the U.S.

1755
Energy And Environment Checklist: An Annotated Bibliography of Resources, Betty Warren. (San Francisco, CA: Friends of the Earth, 1980.) 209 pages, $5.95.
Offers resources on all aspects of energy conservation in home, industry, and agriculture, and material on types of energy.

1756
Energy and the Poor: An Annotated Bibliography of Social Research, F. Frankena, et al, Eds. (Monticello, IL: Council of Planning Librarians, 1977.) 23 pages.
Lists and summarizes some research reports dealing with the special energy problems of the poor.

1757
The Energy Awareness Guide: A Resource Book for Vocational Educators. (Arlington, VA: American Vocational Association).
Lists contacts, sources of assistance, energy-related organizations, curriculum materials, newsletters, periodicals, and more.

1758
Energy Bibliography: The American Institute of Architects. (Washington, DC: American Institute of Architects, 1974.) 8 pages.
Lists references concerning energy conservation in buildings and the built environment.

1759
The Energy Crisis -- Aids to Study, M. McDaniel. (Lincoln, MA: Massachusetts Audubon Society, 1974.) 25 pages, $1.85.
Entries include books, pamphlets, reports, magazine articles, bibliographies, newsletters. and curriculum materials, such as audiovisual aids, guides and units, and simulations, which will be useful in beginning a study of the energy crisis.

1760
Energy Crisis in the United States: A Selected Bibliography of Non-technical Materials, N.C. Burg, et al, Eds. (Monticello, IL: Council of Planning Librarians, 1974.) 67 pages.
Lists the references, primarily articles from non-technical periodicals, dealing with the U.S. energy shortage and possible long and short-term solutions.

1761
Energy Education Catalog, Programs in American Colleges and Universities. (Washington, DC: American Council on Education.)
Lists higher-education courses on energy offered in the nation.

1762
Energy Reference Handbook, T.F.P. Sullivan., (Washington, DC: Government Institutes, Inc., 1977.) 344 pages.
Contains a glossary of key words and terms used in various segments of the energy field, with special attention to oil, gas, coal, nuclear, solar, wind, geothermal, ocean power, shale, and the environment.

1763
Energy-Related Activities in Community, Junior and Technical Colleges: A Directory, Shelby T. Duncan, et al, Eds. (Washington, DC: American Association of Community and Junior Colleges Energy Communications Center, 1981.)
Listing of 1,425 programs of 823 institutions. Illustrated with original drawings of 50 state flowers.

1764
Energy Resources Guide. (Washington, DC: National Council for Resource-Development Energy Project.)
Offers a guide to energy resources.

1765
Energy: Sources of Print and Nonprint Materials, M. Crowley, Ed. (New York, NY: Neal-Schuman Publications, Inc., 1980.) 341 pages, $19.95.
Offers a directory of corporations, government agencies, professional groups, and other organizations that are producing materials on any form of energy or its applications.

1766
Energy Statistics: A Guide To Information Sources, Sarojini Balachandran, Ed. (Detroit, MI: Gale Research Company, 1980.) 272 pages, $28.
Offers a reference and acquisition guide to statistical sources. Information is well-indexed by keyword, including geographic names.

1767
Environmental Action Reprint Service (EARS).

(La Veta, CO: Environmental Action.)
Offers reprints of alternative energy sources in a catalog.

1768
Farm and Rural Energy Planning Manual. (Fairfax, VA: Institute for Ecological Policies.) $6.
Offers practical energy tips for farming.

1769
Federal Conservation and Renewable Energy Resource Directory. (Washington, DC: U.S. Department of Energy, Office of Consumer Affairs, 1980.) Free.
Provides information to consumer groups related to conservation and renewable energy. Offers a brief description of programs within the U.S. Department of Energy.

1770
Grass Roots: An Anti-Nuke Source Book, F. Wilcox. (Trumansburg, NY: Crossing Press, 1980.) 192 pages, $5.95, paper.
Offers articles from nuclear activists and groups and includes a resource bibliography and a list of anti-nuclear groups across the United States.

1771
Hydrogen As Fuel, D. Niskern. (Washington, DC: LC Science Tracer Bulletin, 1975.) 7 pages, free.
Lists selected literature on hydrogen production and its use as fuel in the collection of the Library of Congress.

1772
Individual and Community Response to Energy Facility Siting: An Annotated Bibliography, C. Cluett, et al. (Monticello, IL: Vance Bibliographies, 1980.) 50 pages, $3.
Offers a bibliography annotated to reflect a focus on community adaptation to change.

1773
Kilowatt Counter, David Morris, et al. (Washington, DC: Institute for Local Self-Reliance, 1975.) 36 pages, $2.
Explains how consumers can calculate energy usage and solve related problems. Includes formulas, conversion tables, sample problems, etc.

1774
McGraw-Hill Encyclopedia of Energy. (New York, NY: McGraw-Hill Book Company, 1980.) 856 pages, $34.50.
Has articles on all types of energy.

1775
Mother Earth Bookshelf. (Henderson, NC: Mother Earth Bookshelf.)
Offers self-help books in the energy field.

1776
The 1982 Buyer's Guide Directory. (Chesapeake, VA: The National Energy Journal.) $18.50.
Includes complete listings of solid fuel and solar manufacturers, distributors, imports, associations and more.

1777
1982 Energy, Environmental and Science Education Catalogue. (Aspen, CO: Crystal Productions.)
Lists offerings from this firm.

1778
The 1982 Users Guide to Government Energy Programs. (Washington, DC: Northeast-Midwest Institute.)
Lists over 60 programs, agencies and tax incentives. Offers books from this agency.

1779
Retrieval Index and Abstracts of U.S. Patents. Energy Systems: Solar, Wind, Water, Geothermal. (Ashland, MA: Lexington Data, Inc., 1978.) 233 pages.
Book provides information relating to the patent literature on solar, wind, water, and geothermal energy systems.

1780
Sources of Funds for Solar Activists. (Washington, DC: Center for Renewable Resources. $2.50.
Offers funding resource information.

1781
Two Years of Energy: A Selected List of Books for Library Collections, C. Rasmussen, (New York, NY: **Library Journal**, January 1982.)
The 30 books on this selected list of titles represent a broad range of viewpoints and cover many aspects of the issues and options involved in solving America's energy and energy-related problems.

Conservation

1782
Alternative Waste/Recycling Systems. (Butte, MT: National Center for Appropriate Technology, 1979.) 30 cents.
Annotated listing of publications, technical reports, articles and construction plans concerning the design, economics and management of domestic and community recycling and waste-processing systems. Topics include composting, greywater, septic tanks, fertilizer production, sewage disposal, solid-waste recycling, and resource recovery.

1783
Bibliography for Transportation Energy Conservation. (Argonne, IL: Argonne National Laboratory, 1976.) 64 pages, $4.50.
A listing is given of 578 reports, books, articles, and conference papers on transportation and energy.

1784
Bibliography on Underground Space for Residential, Commercial, and Industrial Buildings, R.S. Weaver. (Monticello, IL: Vance Bibliographies, 1980.) 25 pages.
Cites references that contain current and historical information on the use of underground space in buildings.

1785
Compendium of Federal Programs Related to Community Energy Conservation. (Washington, DC: U.S. Department of Housing and Urban Development, 1979.) Free.
Listing of federal resources available to community groups wishing to conserve energy in various projects such as neighborhood development and revitalization, consumer protection and appropriate technology.

1786
Energy Efficient Planning: An Annotated Bibliography. (Chicago, IL: American Planning Association, 1976.) $5.
Offers a comprehensive listing of books and reports dealing with energy efficiency; includes prices and other order information.

1787
Energy Savers Catalog, Editors of Consumer Guide. (New York, NY: G.P. Putnam's Sons, 1977.) $6.95.
Lists and evaluates retail products for homeowner and explains how to use them or install them. Many of the energy-saving ideas do not require commercial hardware.

1788
Reclamation of Energy From Solid Waste; Theory and Practice: A Selected, Annotated Bibliography for Municipal Officials, N.C. Burg, et al, Eds. (Monticello, IL: Council of Planning Librarians, 1977.) 37 pages.
Lists articles, documents, and monographs dealing with energy and resource recovery from solid waste.

1789
Vanpool Models in First Annual Light Truck/Van Fleet Market Directory. (Redondo Beach, CA: Bobit Publishing Company.)
Lists vehicles used in vanpools.

Solar

1790
A Bibliography for the Solar Home Builder, Donald Aitken. (Sacramento, CA: Office of Appropriate Technology, 1979.) 38 pages.
Lists books for those interested in building solar homes. Its focus is on California and the Western region.

1791
A Directory of Federal Sources of Information on Solar Energy, Janet Dierker. (Wash-

ington, DC: Center for Renewable Resources, 1978.) 16 pages, $2.50.
Lists federal agencies with names of particular people to contact about specific kinds of solar information, programs, and projects.

1792
The First Passive Solar Catalog, David Bainbridge. (Davis, CA: The Passive Solar Institute, 1978.) 71 pages, $5.
Covers passive solar heating and cooling systems, water heaters, and natural lighting systems. A directory of manufacturers and dealers of passive solar components, products, and a directory of 150 passive consultants are included.

1793
Informal Directory of the Organizations and People Involved in the Solar Heating of Buildings, William A. Shurcliff. (Cambridge, MA: Self-published, 1977.) 243 pages, $10.
Offers names of people and organizations, in the United States and in other countries, involved in any significant way in the solar heating of buildings.

1794
Master Catalog of Solar Manufacturers. (Dallas, TX: Solar Engineering Magazine.) $10.
Lists solar firms.

1795
1981 Solar Energy Technical Directory. (Golden, CO: Solar Energy Research Institute, 1981.) 76 pages.
Lists all schools which offer a technical degree in a solar energy-related area. In most cases, the institutions offering these programs consist of vocational/technical schools and junior or community colleges.

1796
The 1978 SUN Catalog. (Bascom, OH: Solar Usage Now, Inc., 1978.) 222 pages, $2.
Offers a catalog of solar hardware, kits, and components and has a chapter on books, plans and magazines.

1797
Passive Solar Design. A Short Bibliography for Practitioners, American Institute of Architects Research Corporation. (Springfield, VA: National Technical Information Service, 1978.) 17 pages, $4.50.
Offers a sampling of information available at the time of publication.

1798
Passive Solar Products Directory. (Boston, MA: Northeast Solar Energy Center.)
Offers a listing of products.

1799
Practical and Do-It-Yourself Projects for Solar Utilization. (Washington, DC: U.S. Department of Housing and Urban Development, 1979.) 4 pages.
Lists books, pamphlets, and articles on do-it-yourself solar projects.

1800
Solar Age Catalog, S. Oddo, Ed. (Harrisville, NH: Solar Age.) 23 pages, $8.50.
A compilation of articles on all aspects of solar heating; includes comparative data tables of various types of collectors.

1801
The Solar Age Domestic Hot Water Directory. (Harrisville, NH: **Solar Age** Reprints.)
Lists manufacturers for all types of water heating equipment including controllers, pumps, tanks, and complete systems.

1802
Solar Census: The Directory for the 80s. (Ann Arbor, MI: AATEC Publications, 1980.) 484 pages, $45.
Lists manufacturers, designers, architects, engineers, researchers, and education professionals.

1803
Solar Education Bibliography for Elementary, Secondary and College Students. (Washington, DC: Center for Renewable Resources, 1979.) 39 pages, $2.90.
Reference guide to hundreds of solar publica-

tions and audiovisual materials selected for their value and adaptability in classrooms and workshops.

1804
Solar Energy and Research Directory. (Ann Arbor, MI: Ann Arbor Science Publishers, Inc., 1977.) $22.50.
Offers comprehensive directory of organizations involved in various aspects of solar energy technology.

1805
Solar Engineering Master Catalog. (Dallas, TX: Solar Engineering Publishers, Inc., 1979.) 184 pages, $15.
Offers a manufacturers index, product specifications and information, listings of solar information, listings of solar manufacturers and sales organizations, solar installation and maintenance contractors, trademarks and product names, state energy organizations, and specialized products.

1806
Solar Greenhouse Bibliography and List of Plans. (Washington, DC: U.S. Department of Housing and Urban Development, 1979.) 4 pages.
Lists both technical and non-technical books, articles, journals, proceedings, and reports on solar greenhouses.

1807
Solar Industry Index: The Comprehensive Guide to Manufacturers and Service Organizations. (Washington, DC: Solar Energy Industries Association, 1977.) 381 pages, $8.
Lists solar product manufacturers and service companies by type of product or service, including solar water, space and pool-heating products; passive systems; installation and maintenance contractors; consulting services; photovoltaic equipment and systems; wind energy systems and products; bioconversion; and solar thermal power generation.

1808
Solar Products Specifications Guide. (Harrisville, NH: **Solar Age**.) $65.
List solar firms and product information.

1809
Survey of the Emerging Solar Energy Industry, J. A. Bereny. (Sacramento, CA: Solar Energy Information Services, 1977.) 405 pages, $60.
Offers comprehensive listing of names and addresses related to the solar industry; also an overview of the different facets of the industry.

Renewable/Alternatives

1810
Alcohol Fuels, V.O. Sammons. (Washington, DC: LC Science Tracer Bullet, 1979.) 10 pages, free.
Offers bibliography on alcohol fuels literature in the collections of the Library of Congress.

1811
Alternate Energy Directory, V. Robertson et al. (Albuquerque, NM: Alternate Energy Publishing Company, 1977.) 143 pages.
Directory lists hardware sources for and publications on methane, water, wood, wind, and solar energy.

1812
Alternative Energy Sources: A Bibliography, K.M. Fowler. (Washington, DC: National Science Teachers Association, 1977.) 4 pages.
Lists publications on alternative energy sources.

1813
Annotated Bibliography of Wood Energy Periodicals. (Hanover, NH: Resource Policy Center.)
Offers a guide to publications dealing with wood energy.

1814
Appropriate Technology -- A Directory of Activities and Projects. (Washington, DC: U.S. Government Printing Office, 1977.) 66 pages, $2.20.
Provides an annotated directory that includes listings of energy and housing activities, bio-

agricultural activities, community organizing groups and international appropriate technology (AT) groups.

1815
Bibliography on Energy From Biomass, H.N. McCarl, et al. (Monticello, IL: Vance Bibliographies, 1981.) 16 pages, $3.
Offers references to biomass energy production, largely from the period 1975-1980.

1816
Bio-Energy Directory, Paul Bente, Ed. (Washington, DC: The Bio-Energy Council, 1980.) $70.
Reports on woody and non-woody plants, plant fluids, aquatic plants and refuse and covers microbial conversion, direct combustion, gasification and photosynthetic research.

1817
Dealers And Distributors Directory. (Chicago, IL: **Wood and Wood Products**.) $19.
Lists firms dealing in wood products.

1818
Ethanol Fuels Handbook for Community and Small-Scale Producers, Peggy Wheeler, et al. (Washington, DC: Rural America, 1981.) $5.
Offers a guide, organized by region, for initiation and operation of alcohol plants, with special stress on involvement of low and moderate-income people.

1819
Fuels From Biomass: Annotated Bibliography, B.A. Stout. (Washington, DC: Agricultural Research Institute, 1979.) 35 pages.
Offers publications on biomass as an energy source.

1820
A Guide To Commercially-available Wind Machines. Rockwell International, (Springfield, VA: National Technical Information Services, 1978.) 121 pages, $7.25.
Offers detailed descriptions of 66 small wind machines commercially available in the U.S.

1821
National Wind Data Index: Final Report, M. J. Changery. (Asheville, NC: National Climatic Center, 1978.) 231 pages, $14.
Offers a guide to the identification of all locations in the United States with original wind data in any form that have been archived at the National Climatic Center (NCC).

1822
Ocean Waves, Power Unlimited, R. W. Lockerby. (Monticello, IL: Vance Bibliographies, 1981.) 12 pages, $3.
Deals with the major types of wave-power devices under active development.

1823
Rainbook: Resources for Appropriate Technology. (New York, NY: Schocken Books, 1977.) 251 pages, $7.95.
Offers a catalog and directory that gives detailed descriptions of organizations that are concerned with renewable energy, community building, agriculture, and health.

1824
Renewable Energy Book List. (Billings, MT: Alternative Energy Resources Organization.)
Describes 50 books on solar, architecture, window insulation, greenhouses, earth-sheltered buildings, wind and water power, alcohol fuels, wood heating and more, as well as lists of energy coloring books and other educational materials for students and teachers.

1825
The Wind Cyclopedia. (Henderson, NC: Mother Earth Bookshelf.) 204 pages, $9.95, paper.
Offers a guide to wind resources.

1826
Wind Energy Information Directory. (Golden, CO: Solar Energy Research Institute, 1980.) 28 pages, $2.
Tells where to go to obtain information on wind energy and applications. Sources reviewed are federal and state governments, professional and trade associations, and private companies.

1827
Wind Power, J. Collins. (Washington, DC:LC Science Tracer Bullet, 1973.) 7 pages, free. Offers bibliography of wind power literature in the collections of the Library of Congress.

1828
Wind Power Access Catalog, Michael Evans, (Bristol, IN: Wind Power Digest, 1979.) $6. Offers a list of wind resources.

1829
The Woodburners Encyclopedia. Jay W. Shelton, et al. (Henderson, NC: Mother Earth Bookshelf, 1976.) 155 pages, $8.95, paper.
Offers a guide on the cost, safety, design and operation of woodburning stoves and fireplaces, with a listing of more than 160 manufacturers and distributors.

ENERGY FILMS

The Arkansas Energy Office has a number of 16 mm films, filmstrips and slide presentations available on loan, free of charge. All are on the general topic of energy. Ordering information follows the list.

General

A01 Decision: Energy For The Future
12 minutes -- 16 mm -- color
Intermediate/Adult
Bullfrog Films
Gas lines or no gas lines, many Americans refuse to believe that we face a shortage of fossil fuels. This amusing animated film uses graphs and manipulates screen time to demonstrate to children and adults that our dependence on fossil fuels is an extremely recent phenomenon which, if continued, will lead to disastrous shortfalls. But there is a clear alternative: to switch to renewable energy sources. We should act now so that we can be proud to say, "It all began with us."

A02 The Energy Crisis
Filmstrip -- color
Junior High/Senior High
Educational Activities, Inc.
Part One lists some reasons why we must search for alternatives to oil and describes several possibilities. It is designed to help us recognize that most of the energy on earth comes from the sun. Part Two lists reasons why energy was conserved in the past and ways it can be conserved in the car, home and personal lifestyle today. This part is designed to help us recognize ways energy is commonly wasted and summarizes the benefits of conservation.

A03 Turn A Handle; Flick A Switch
12 minutes -- 16 mm -- color
Elementary/Intermediate
Churchill Films
The film is in three parts, which deal with water, gas and electricity. Three principal concepts are dealt with: where water, gas and electricity come from, how they get to our homes and how we use them there. Places to stop the projector allow the teacher to involve the children in discussion. Each sequence is begun by an absurd high-speed scene in which children provide water, heat and light as our forebears did.

Conservation

A04 Featherfoot
26 minutes -- 16 mm -- color
Junior High/Adult
American Institute of Driving Efficiency
Test your Driving Efficiency Quotient as you view this film about energy-saving driving and car maintenance habits. Developed by Honeywell Corporation, Featherfoot training reduced the company's transportation energy use by 13 percent. At today's gasoline prices, that's a lot of money! Test forms, brochures, mileage calculators and mileage recorders are provided with the film. Viewers are encouraged to practice the Featherfoot driving techniques they learn from the film and to get in the habit of keeping track of their miles per gallon to see what a difference Featherfoot driving can make.

A05 Hottest Show On Earth
26 minutes -- 16 mm -- color
MacMillan Films, Inc.
Uses animation, special effects and humor to explore why and how we should insulate our homes. Produced by the National Film Board of Canada. Entertaining, but not too informative, this film would make a good warm-up introduction to a serious workshop on home insulation.

A06 Running On Empty -- The Fuel Economy Challenge
27 minutes -- 16 mm -- color
National Audiovisual Center
This film introduces us to a variety of methods that average drivers in average cars can practice -- as they travel city streets, country roads, and major highways -- to achieve maximum savings in gasoline and in money.

A07 Saving Energy At Home
13 minutes -- 16 mm -- color
Junior High/Adult
Ramsgate Films
Major sources of energy waste around the house are pinpointed and specific tips provided on how to control home energy consumption and fuel bills. On-the-street interviews demonstrate the new attitude toward energy usage and its effect on the American lifestyle.

A08 20 Miles From Everything
20 minutes -- 16 mm -- color
Federal Highway Administration
A look at five demonstration projects showing innovative methods to solve the transportation problems of rural America.

A09 Vanpooling
17 minutes -- 16 mm -- color
U.S. Department of Energy
Vanpooling saves energy and money, reduces pollution and is a convenient and comfortable way to get to and from work. Whether the vanpool is owner-operated by an individual or is provided by an employer or government agency, commuters can benefit from vanpooling.

Solar

A10 Learning About Solar Energy
10 minutes -- 16 mm -- color
Elementary/Intermediate
Paramount Communications
A group of children build a small house to experiment with energy from the sun. They cook food on a fire and on a solar cooker to demonstrate the use of indirect and direct solar energy. They play with different-colored paints to investigate the relationship between color and heat. As they experiment with solar panels, fuel pellets and a toy steam engine, they demonstrate both conventional (fossil fuels and electricity) and unconventional (solar panels and solar cells) sources of energy. Photosynthesis and energy cycles, like the food chain, are explained. A diagram illustrates how fossil fuels are created. The film emphasizes that life on Earth would be impossible without the sun which, directly or indirectly, is the source of all energy.

A11 Solar Energy: The Great Adventure
26 minutes -- 16 mm -- color
Junior High/Adult
National Audiovisual Center
A look at our nation at its innovative best. Eddie Albert introduces us to an unusually diverse group of people who have developed their own solar energy systems, both urban and rural. From New England to Missouri and on to California, the film presents a lively look at American ingenuity at the grassroots. We meet a builder and a banker, a farmer and a teacher, inner-city workers and industrialists, entrepreneurs and tinkerers. All are seeking new and better ways to put the sun to work. A "hydronic" solar heating and hot water system, solar financing, an energy self-sufficient farm, windmills and wind turbines, wood energy, solar education, urban solar systems and job opportunities are examined. "There will be a great adventure for this country as we move into the next century and turn increasingly to renewable sources of energy as a replacement for fossil fuels."

A12 The Solar Film
9 minutes -- 16 mm -- color
Junior High/Adult
Pyramid
The Solar Film combines elements of drama, technology and striking visual imagery to present the vast potential in the sun's energy. The film uses animation, live action and still photography to tell a story in three parts: how the sun made the earth as we know it today; how humankind has dangerously exploited the resources created by the sun; and how the sun can provide us today with yet another energy source that is clean, safe and ever-renewable. Solar energy, and the technology to use it, are ready and waiting!

A13 Solar In Arkansas
45 minute slides -- color
Junior High/Adult
North Arkansas Community College

This slideshow with taped narration describes homes, mostly in Northwest Arkansas, that use passive and active solar principles in their design, as well as alternative energy projects such as an alcohol fuel distillery, a methane digester and several windmills. The show was prepared by Stephen Cook of North Arkansas Community College at Harrison.

A14 Solar Promise
22 minutes -- 16 mm -- color
Junior High/Adult
Bullfrog Films
Solar energy can heat our homes, buildings and water with active or passive systems, whether new or retrofit, in any climate, even the coldest and cloudiest. And solar can be cost-effective, particularly low-cost, do-it-yourself technology such as an attached solar greenhouse. Not only can it heat your home, but you can grow food year round. Solar principles are not new. The Anasazi of Mesa Verde (Arizona) used passive solar building techniques to keep their dwellings a constant 65° year round. At the turn of the century one-third of the homes in Pasadena, California used solar-heated water. These old principles and techniques are easily adapted and refined for modern use. Diagrams and examples of systems in use from Vermont to New Mexico show how solar collectors, trombe walls, greenhouses and other solar systems, work.

Renewables/Alternatives

A15 The Power to Change
28 minutes -- 16 mm -- color
Junior High/Adult
Third Eye Films
Tells about human-scale solutions to social and economic problems -- appropriate technology. Visits a farmers' market in Tennessee, a composting project in New York City, a bottle recycling enterprise in California, the solar community of Davis, California, a windmobile in Michigan, an alternative energy company in California, and a windmill raising in Massachusetts.

Future Additions

The Arkansas Energy Office will soon have available for loan these new acquisitions (for descriptions see following entries):

129 Lovins on the Soft Path
184 Weatherize Your Home
189 Building the Brookhaven House

Other Recommended Films

In addition to the films listed above, which are available on loan from the Arkansas Energy Office, the AEO staff has reviewed and recommends these films:

111 Energy: Light at the End of the Tunnel
114 Energy and Morality
120 Energy: the Nuclear Alternative
147 Sorry, No Vacancy
161 Energy; Less is More
169 How to Keep Heat in Your House
177 Recycling in Action
187 The Attached Solar Greenhouse
192 A City Farmstead
217 Sunbuilders
219 Sun Power for Farms
223 Backyard Alternative Energy
224 Bill Loosely's Heat Pump
230 Harness the Wind
231 Home Heating With Wood
239 Wind: An Energy Alternative

Who May Borrow

Educational, civic, church, library, professional, youth activity, commercial, industrial, and government organizations are invited to borrow films. This service is intended for group showings -- but not for personal home use.

Loan Requirements

Please help us and follow these simple requirements:

1. Use a good projector and an experienced operator.

2. Please do not cut out any scenes.

3. Films do break and occasionally will require splicing. We prefer that damaged films be returned to us for professional repairs. Do not use "Scotch" tape for emergency splices. Damage should be reported in a note when returning the film, so that repairs may be made before it is shipped to the next borrower.

4. Borrowers planning to show a number of films on a protracted schedule should request delivery of specific films on a staggered schedule, to help us serve other borrowers.

5. Films are booked for specific users and dates. Please do not send the films to others. Return each film promptly by the fastest method. We like to honor all requests.

6. Films are shipped from the film library at government expense, but return shipment charges are paid by the borrower.

7. Rewind films for return.

To order, call or write:
Public Information Program
One State Capitol Mall
Little Rock, AR 72201
Energy Hotline: 1-800-482-1122

FILMS, SLIDES, FILMSTRIPS, VIDEO

General

101 Acceptable Risk?
37 minutes -- Slide Show/3-part filmstrip -- color
Grade 7/Adult
Bullfrog Films
Explains the nuclear fuel chain from mining uranium to disposing radioactive wastes. Questions the desirability of our nuclear dependence.

102 Coal: An American Asset
28 minutes -- 16 mm -- color
National Coal Association
Shows modern methods and machinery used in mining and transportation of coal, industry commitments to a good environment, and scientific research into coal's future potential.

103 Coal -- Taking the Lumps Out
5 minutes -- 16 mm -- color
High School/Adult
National Audiovisual Center
Shows the research that is under way in approaches to converting coal to liquid or gaseous fuels at affordable prices.

104 Coal To Kilowatts
9 minutes -- 16 mm -- color
Middle Grades/Junior High
Aims Instructional Media, Inc.
Looks at open-pit strip mining as an alternative source for producing electrical energy. Shows how the top layer of earth is removed to uncover the underlying coal.

105 Don't Cut Us Off
16 minutes -- 16 mm -- color
National Audiovisual Center
Documents the activities of four American communities in solving the high cost of energy and fuel as it affects the poor and elderly segments of society. Featured are dedicated citizens who have cared and taken action to help their less-fortunate neighbors.

106 Down to Earth City Living
18 minutes -- 16 mm/videotape -- color
Pyramid Films
Shows a Berkeley, California, house transformed into a nearly self-sufficient habitat.

107 Ecology - Barry Commoner's Viewpoint
19 minutes -- 16 mm/videocassette -- color
Encyclopedia Britannica Educational Corporation
Introduces the study of ecology and features one of America's most outspoken biologists - Dr. Barry Commoner. Explains the threat of technology to the environment by describing

four principles of ecology. These are: "Everything is connected to everthing else, " "Everything must go somewhere," "Nature knows best," and "There is no such thing as a free lunch."

108 E.F. Schumacher . . . as if people mattered.
15 minutes -- 16 mm -- color
Bitterroot Films
Interviews Dr. Schumacher discussing the dilemmas that confront modern society as he elaborated in his book *Small is Beautiful . . .*

109 The Electric Story: Coal
19 minutes -- 16 mm -- color
Research Reports Center
Explores the technology tradeoffs of generating electricity with coal. Documents the efforts of the utility industry to find less expensive ways to make electricity from coal without harming the environment.

110 Energy
10 minutes -- color
Primary/Intermediate
PCI
Illustrates the degree to which our modern lifestyle is dependent on energy from natural resources and explores the spectrum of energy sources - human, animal, nuclear, energy conservation, geothermal, and solar energy overview.

111 Energy: A Light at the End of the Tunnel
30 minutes -- 16 mm -- color
High School/Adult
Coronet
Explores our energy resources and consumption and then explores our community energy planning as a successful method of controlling consumption and conserving our dwindling resources.

112 Energy: A Matter of Choices
22 minutes -- 16 mm -- color
Encyclopedia Britannica Educational Corporation
Shows how energy is used in an industrialized society, and discusses the availability of the major sources -- fossil fuels, hydro, and nuclear. Focuses on electrical power shortages.

113 Energy: A National Issue
27 minutes -- 16 mm -- color
Junior High/Adult
Aims Instructional Media, Inc.
Uses the popular animated TV characters, the Flintstones, to cover the history of energy sources from wood fires to our present dependence on petroleum, the problem of energy loss in converting heat energy to electricity, a graphic demonstration of our country's increasing demand and dependence on imported oil, the economic effects of that dependence and problems with alternate energy sources.

114 Energy & Morality
33 minutes -- 16 mm -- color
High School/Adult
Bitterroot Films
Explores new ideas about energy and information as major social forces. Raises questions about the relationship between varying levels of energy use and freedom, aggression, responsibility, and the "patterns which connect our lives to other lives."

115 Energy Carol
11 minutes -- 16 mm/videocassette -- color
Junior High/Adult
National Film Board of Canada
Takes a not-so-subtle poke at the way we live, the way we consume and what the future might hold. The film borrows its hero, Ebenezer Scrooge, from Dickens.

116 Energy Consequences
20 minutes -- 16 mm/videocassette -- color
Stuart Finley, Inc.
Shows how the excessive burning of coal and other fossil fuels will cause increasing atmospheric concentrations of CO_2. This can cause significant climate changes, which could be very destructive economically and socially.

117 Energy Crunch: The Best Way Out
52 minutes -- 16 mm -- color
Junior High/Adult
Carousel Films
Shows how the U.S. can eliminate 98 percent of its foreign oil imports by 1990 by applying existing technologies and common sense to improve efficiency in homes, on the highway, in office buildings and factories and throughout local communities.

118 Energy for the 80's
28 minutes -- 16 mm/videocassette -- color
Modern Talking Picture Service, Inc.
Puts the important alternative sources of energy into relationship with oil and natural gas and it indicates the role a major oil company can play in developing new sources.

119 Energy: The Dilemma
20 minutes -- 16 mm/videocassette -- color
Junior High/Adult
Churchill Films
Shows energy growth patterns, past, present, and future, and examines efforts to supply increasing amounts of energy from dwindling supplies in ways that are costly, hazardous and damaging.

120 Energy: The Nuclear Alternative
(2nd Edition)
22 minutes -- 16 mm/videocassette -- color
Junior High/Adult
Churchill Films
Explains what fission power is and how it works. Presents both sides of the controversies raging over plant safety following the Three Mile Island accident, and over whether nuclear wastes can be disposed of safely.

121 Energy vs. Ecology
28 minutes -- 16 mm -- color
Modern Talking Picture Service, Inc.
Shows how coal is the most abundant source of energy in this country, and how we use this valuable resource. It illustrates the surface mining of thousands of acres of land and shows how that same land is then restored to usable productivity.

122 Farming With Nature
35 minutes -- 16 mm -- color
Junior High/Adult
Churchill Films
Shows the farming practices of Gene Poirot, a Missouri farmer who has returned worn-out prairie soil to fertility by close attention to minerals and natural principles. Economically successful, Poirot uses farming methods which minimize work, capital expenditures and energy consumption.

123 Fuel of the Future
12 minutes -- slides with cassette -- color
High School/Adult
Ashland Oil, Inc.
Suggests that synfuels will play an increasingly important role in answering our nation's energy needs and shows how transportation fuels may come from coal some day. Ashland Oil will provide a speaker for this presentation.

124 A Funny Thing Happened on the Way to the Gas Station
27 minutes -- 16 mm -- color
Elementary
Modern Talking Picture Service, Inc.
Tells the story of a 13-year-old boy who follows the making of gasoline from a producing well in Texas to a service station in New Jersey. Through a series of fantasy sequences, the boy visits a production site, an oil tanker, a refinery and a marketing terminal as he learns about the manufacture of gasoline.

125 The Harvest Comes Home
18 minutes -- 16 mm -- color
Junior High/Adult
Ramsgate Films
Shows ways in which consumers can work cooperatively with urban as well as rural neighbors to reduce the market price of farm products while raising profits for small, independent farmers. Also discusses alternative food systems.

126 Harrisburg
25 minutes -- 16 mm/videocassette -- black &

white
Bullfrog Films
Gives an impressionistic account of the nuclear accident at Three Mile Island. A discussion film for questions about the role of the media and government in disaster situations, and the importance of the public's right to know.

127 In Our Own Backyards
29 minutes -- 16 mm -- color
Grade 7/Adult
Bullfrog Films
Shows uranium mining and milling in the U.S. and the creation of millions of tons of radioactive waste. Explores the impact of the process on the environment, and the health of workers and nearby residents.

128 Introduction to Oil and Gas Operations Offshore
27 minutes -- 16 mm/videocassette -- color
Petroleum Extension Service,
University of Texas
Shows how offshore operations are conducted, and related to exploring for and developing oil and gas offshore.

129 Lovins on the Soft Path
36 minutes -- 16 mm -- color
Grade 9/Adult
Bullfrog Films
Offers an analysis of the energy problem, by Amory and Hunter Lovins, and tackles four revealing questions: "How much energy do we need?", "What kinds of energy?" "Where can we get it?", and "Where do we start?"

130 Matter into Energy
10 minutes -- 16 mm/videocassette -- color
High School/Adult
Coronet Films
Describes both nuclear fission and fusion in graphic terms, and explains Einstein's famous $E = MC^2$ formula. Through detailed three-demensional animation, the audience is introduced to protons, neutrons, nuclear binding energy, chain reactions, and the conversion of mass into energy in nuclear reactions.

131 Mining of Coal
17 minutes -- 16 mm -- color
Consolidation Coal Company
Captures the complete story of how coal is mined in the U.S. today and underscores the importance of coal energy in our everyday living. The film examines coal mining from initial exploration and planning stages to different methods of underground mining, surface mining, reclamation and coal research and development.

132 Native Self Reliance
20 minutes -- slideshow/filmstrip -- color
Grade 7/Adult
Bullfrog Films
Documents Native American efforts to become energy self-sufficient, and show how appropriate technology complements traditional belief systems. Shows six different tribes building windmills, solar crop dryers, solar greenhouses, and collectors, small-scale farming, and aquaculture.

133 Natural Gas for Tommorrow
5 minutes -- 16 mm -- color
American Gas Association
Provides an introduction to a discussion of future sources of gas energy, presenting such future supply sources as coal gasification, liquefied natural gas, offshore drilling, biomass and research on new technologies. The film illustrates some of the modern technology that already is adding to the U.S. supply of gas energy.

134 New Life for Ruined Land
14 minutes -- 16 mm -- color
National Audiovisual Center
Shows a two-year rehabilitation demonstration program at abandoned coal mining sites in southern Illinois that turned a large pile of gob into a recontoured and revegetated wildlife refuge and recreational facility.

135 No Act of God
28 minutes -- 16 mm/videocassette -- color
Grade 7/Adult
National Film Board of Canada
Explores the question of nuclear power and

the new breeder reactor. Thoughtful people on both sides of the issue are interviewed.

136 Nuclear Power: Pro and Con
25/50 minutes -- 16 mm -- color
Grade 9/Adult
McGraw-Hill Films, Inc.
Offers a pair of films narrated by Howard K. Smith that explore both sides of the controversy surrounding nuclear energy. Each film includes interviews with experts stating contrasting views. Smith remains neutral, urging the country to come to a decision. Since each film could be extremely convincing, it is recommended that they be shown back-to-back.

137 The Pipeline
27.5 minutes -- 16 mm -- color
Association Films, Inc.
Shows the building of the trans-Alaska pipeline. Follow its route with the engineers, construction workers, adventurers and old-timers who battled the elements and faced the dangers to build the pipeline.

138 The Pipeline of Black Mesa
24 minutes -- 16 mm -- color
Southern Pacific Pipelines
Details operations of the nation's only commercially-operated coal slurry pipeline, 350 miles in Arizona.

139 A Play Half Written: The Energy Adventure
26 minutes -- 16 mm -- color
Modern Talking Picture Service, Inc.
Offers a glimpse into humanity's past and future, and the critical role of energy in the ongoing progress of civilization. The energy sources of the past and present, including nuclear power, and the future technologies now being developed, are brought together.

140 Power for a Nation
28 minutes -- 16 mm -- color
Film Management Center
Presents the story of electric power and this nation's efforts to keep up with rising demands, from the late 19th Century until the present.

141 Producing Oil
25 minutes -- 16 mm/videocassette -- color
Petroleum Extension Service,
University of Texas
Offers a basic explanation of what is required to get oil and gas out of the reservoir and to the pipeline. Special emphasis is placed on oil and gas production compatible with the environment.

142 Radiation
23 minutes -- 16 mm -- color
Grade 9/Adult
Bullfrog Films
Explains the most important physical and biological concepts of radiation, including stable and unstable elements, ionizing radiation, the "halflife" of radioactive materials, how radiation can be concentrated in the food chain.

143 Refining
14.5 minutes -- 16 mm -- color
Modern Talking Picture Service, Inc.
Tells the story of crude oil and the production of many useful petroleum products, highlighting both the scientific and economic principles behind refining. Extensive animated sequences show how molecules are changed and reformed.

144 Rethinking Tomorrow
28 minutes -- 16 mm -- color
National Audiovisual Center
Contrasts our old image of the future, based on cheap abundant energy, with a new image of the future that must be based on efficient use of energy.

145 Search for Survival: The Petroleum Exploration Story
22 minutes -- 16 mm -- color
American Petroleum Institute
Follows the search for oil from the initial stages (using seismic techniques such as vibrasensing to locate oil-bearing strata), through the decision-making process of which areas to lease, and finally to the commitment of money for drilling an exploratory well.

146 Small is Beautiful
30 minutes -- 16 mm/videocassette -- color
Grade 7/Adult
National Film Board of Canada
Presents E. F. Schumacher and his theories, and visits Schumacher at home in the English countryside.

147 Sorry, No Vacancy
27 minutes -- 16 mm -- color
Junior High/Adult
Malibu Films
The film dramatically illustrates the world's conflict between uncontrolled population growth and our consumption of the planet's dwindling resources.

148 Stocking Up
28 minutes -- 16 mm -- color
Grade 7/12
Bullfrog Films
Emphasizes low-energy techniques such as root cellaring, drying, freezing, and canning, and explains the pros and cons of each method of food preservation in terms of nutrition and expense.

149 The Story of Beryl A
15 minutes -- 16 mm -- color
Texas Eastern Transmission Corporation
Details construction and setting of the Condeep drilling and production platform in the North Sea.

150 Sunbeam Solution
38 minutes -- 16 mm/videotape -- color
Time/Life Multimedia
Investigates our current rate of energy consumption and how solar may offer some answers for the future. It presents information about nuclear, solar space satellites, solar farms, hydro, wind, tidal power, geothermal, and hydrogen.

151 The Terrible News
25 minutes -- 16 mm -- color
Bitterroot Films
Shows the relationship between natural energy systems and industrial energy systems from a hardcore environmental point of view.

152 Toast
12 minutes -- 16 mm -- color
Intermediate/Adult
Bullfrog Films
Shows the enormous amount of energy that goes into putting the daily slice of toast on the breakfast table.

153 Tomorrow's Energy
20 minutes -- 16 mm -- color
RHR Filmedia, Inc.
Shows how methane is found and produced, from garbage, coal, sewage, tight rock formations in the West, Devonian shale in the Midwest, Alaska, geopressure zones in the Gulf of Mexico, and how a one-million-mile pipeline distribution system stands ready to deliver methane nationwide. The film also highlights solar energy through biomass conversion: methane from water hyacinths, cattle manure, and giant brown kelp.

154 Unconventional Gas Resources
28.5 minutes -- 16 mm -- color
Technical Information Center
Provides a descriptive overview of the U.S. Department of Energy's activities in unconventional gas recovery with industry, state, and national lab participation, in eastern gas shales, methane from coalbeds, western gas sands, and geopressured aquifers.

155 When the Circuit Breaks -- America's Energy Crisis
28 minutes -- 16 mm -- color
National Audiovisual Center
Shows how America's energy crisis happened and what possibilities the future holds. Examines coal, oil, and natural gas resources, as well as nuclear, geothermal, and solar energy sources. Stresses the importance of conserving energy at home, in transportation, in business, and industry.

156 Which Energy
23 minutes -- 16 mm/videocassette -- color
Stuart Finley, Inc.
Presents a comparison of such energy sources as fossil fuels, nuclear fission and fusion, solar energy and wind, along with consider-

ation of conservation concepts which can save energy. Each system has different availability, research requirements, pollution implications and cost.

Conservation

157 The Alternative Is Conservation
20 minutes -- 16 mm/3/4" videocassette -- color
High School/Adult
Third Eye Films
Presents an in-depth view of eight communities and the water problems they have faced and successfully solved.

158 Aggressive Energy Management
28 minutes -- 16 mm/videocassette -- color
Energy Opportunities Consortium
Film Distribution Section
Using a unique combination of animation, comedy, dramatization, and discussion, shows how to carefully manage the consumption of energy. Many practical examples are shown as the energy management class conducts Energy Audits and compiles Energy Conservation Opportunities.

159 Does It Have to Be This Way?
10 minutes -- 16 mm -- color
National Audiovisual Center
Shows how car costs, the demand for energy, and the ulcer rate can be cut and also stresses the importance of using mass transit, carpools, and other means of transportation.

160 Energy Conservation in Residential Construction
25 minutes -- 3/4" videocassette -- color
Adult professionals
Center for Energy Policy and Research
Describes the design and construction of the energy-efficient residence by the NAHB Research Foundation and a series of residences which incorporate solar energy usage in the original architectural design.

161 Energy: Less is More
18 minutes -- 16 mm/videocassette -- color
Junior High/Adult
Churchill Films
Investigates the need for slowing the growth of energy consumption and ways this can be done in transportation, buildings, appliances, waste.

162 Energy Management
15 minutes -- 16 mm -- color
Walter J. Klein Company, Ltd.
Presents an easy-flowing motion picture that is simple to follow and remember as a wise guide for personal handling of energy. Rather than feeling frustrated, one can watch these guidelines for daily energy management and feel very good about it.

163 Energy Proofing Your Home
10 minutes -- 16 mm -- color
General
National Audiovisual Center
Explains the principles and techniques of saving energy and money in the home. Points out how energy bills can be reduced by weatherstripping and caulking, installing storm windows, adding insulation and a fireplace screen, changing temperature settings on water heaters, and making other small alterations in the kitchen, laundry, and bath.

164 Energy Sense: Kitchen Appliances
29.5 minutes -- videocassette -- color
Energy, Cooperative Extension Service, University of Rhode Island
Describes energy-saving kitchen appliances, and techniques, including faucet repairs and clothes washing, as well as purchase of energy-efficient machines.

165 Energy . . . Where We Least Expect It
26 minutes -- 16 mm/videocassette -- color
High School/Adult
Third Eye Films
A humorous, upbeat film about recovering energy from million of tons of trash, garbage, and waste produced by Americans everday.

166 GO
10 minutes -- 16 mm/videocassette -- color
Grade 1/4

Bullfrog Films
Explains that it's energy that makes things go, including people. Without it, everything stops. The film shows children how they can save energy by recycling, by composting kitchen and garden wastes, and by helping to grow their own food.

167 Home Energy Conservation
69 slides with script and cassette
Ecotope Group
Covers the steps to home energy conservation -- everything from turning down thermostats and wearing warm clothes, to insulating floors and dealing with cathedral ceilings. R-factors, infiltration, and vapor barriers are explained.

168 Hot Water Conservation
40 slides with script and cassette
Ecotope Group
Covers steps to use less hot water and how to save what heat is needed, by insulating. Includes a step-by-step description of how to fix a leaky faucet, discussion of flow-restrictor shower heads, step-by-step approach to insulate a hot water tank and pipes, and considerations for buying a new water heater.

169 How to Keep Heat in Your House
28 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Teaches conservation as the only viable short-term answer to the nation's energy problems, and that you can save up to 50 percent of your fuel bills just by insulating and weatherstripping.

170 How to Squeeze More Miles from Your Car!
15 minutes -- 16 mm/videocassette -- color
Walter J. Klein Company, Ltd.
Shows ways to increase car mileage dramatically. They include driving, car-maintenance and car-buying hints like quick stick-shifting, gentle pedaling, keeping tank half full, carpooling, hard tires, live batteries, tune-ups, matching fuel to car and many others.

171 Infiltration & Ways to Beat It
37 slides with script and cassette
Ecotope Group
Details specific ways to cut down on heat loss in the home. Instructions on how to install door thresholds and apply weatherstripping are given, as are directions for caulking properly around doors, windows, and foundations.

172 Let's Help Recycle
11 minutes -- 16 mm -- color
Primary/Intermediate
PCI
Tells what children can do about recycling waste with a group that appears before their city council to present a report. They outline some of the problems they have seen, and they have a solution for each, involving careful buying habits and recycling. The adults are impressed, and the council prepares to take action.

173 New Western Energy Show
25 minutes -- 16 mm/videocassette -- color
Grade 1/Adult
AERO
Documents a revue put on by a group of concerned citizens in Montana, based on the old-style medicine shows, revolving around the theme of using energy wisely.

174 No Fuelin' . . . We're Poolin'
8 minutes -- 16 mm -- color
National Audiovisual Center
Describes the role of the employer in vanpool programs, including carpool matching, driver selection, and determining fares. Explains the concept of employer-sponsored vanpooling programs, and encourages employees to participate in the program.

175 One Way to Weatherization: A CAP in the Gap -- Cumberland, Maryland
26 minutes -- 16 mm -- color
Monumental Films and Recording
Instructs Community Action Program (CAP) workers in proper weatherization techniques, and is appropriate for any group wishing to learn how to caulk, weatherstrip, install

thresholds, make plastic storm windows, insulate attics and furnace ducts, and learn which tools to use and how to use them properly.

176 Pigopolis
12 minutes -- 16 mm -- color
Junior High/Senior High
Industrial Media, Inc.
Tells the story of a young boy who absent-mindedly walks through his house turning on lamps, radios, and other electrical devices. His father notices the boy's insensitivity to energy use, and tells a story of energy conservation.

177A Recycling: A Way of Life
14 minutes -- 16 mm -- color
Modern Talking Picture Service
Tells the story of aluminum recycling and its importance to the conservation of energy. Free discussion materials supplied.

177 Recycling In Action
14 minutes -- 16 mm -- color
Junior High/Adult
Film Fair Communications
Illustrates ways individuals in a community can cooperate to recycle paper, glass, and aluminum.

178 Rubbish to Riches
11 minutes -- color
Middle Grades/Junior High
Aims Instructional Media, Inc.
Shows how waste products can be converted into fuel and trash can be recycled into usable products. Waste products, instead of being dumped, can be separated into energy-producing burnable particles and reclaimed iron, steel, aluminum and glass.

179 Saving Energy on the Road
16 mm -- color
Ramsgate
Illustrates ways that drivers can save fuel and money while meeting their transportation needs.

180 The Small Farm in America
35 minutes -- 16 mm -- color
High School/Adult
Churchill Films
Discusses the problems of the small farm in America and suggests energy-efficient methods of farm production.

181 Transportation - The Way Ahead
7.5 minutes -- 16 mm -- color
National Audiovisual Center
Looks at America's dependence on the automobile . . . and at a future with gasoline in short supply. The film examines alternatives to the internal combustion engine, new energy sources for transportation, and research that may help us conserve energy, live in a cleaner environment and, at the same time, allow us to continue as a mobile society.

182 Up the Power Curve
10 minutes -- 16 mm -- color
National Audiovisual Center
Demonstrates the practicality of energy conservation in homes, factories and all parts of life. Presents the important role it has in helping to solve America's energy problems. Shows a wide range of energy-saving ideas, and points out the significant dollar savings that can be achieved when these ideas are put into practice.

183 Water Follies
7 minutes -- 16 mm -- color
Modern Talking Picture, Inc.
Presents animated cartoon characters who use humor to demonstrate everyday uses and abuses of the water supply in our lives, including dishwashers, leaky faucets, watering the lawn, showering, washing the car, and shaving.

184 Weatherize Your Home
18 minutes -- 16 mm -- color
Media Resources Center
Offers a wealth of ideas for improving a home's energy efficiency, explanations of R-value and heat loss, and step-by-step instructions for caulking, installing vapor barriers, and insulating attics, floors, and water heaters.

185 We Will Freeze in the Dark
42 minutes -- 16 mm -- color
McGraw-Hill Films
Explains the need for conservation if the country is to avoid a very serious economic and energy crisis. It underscores the possibility of saving energy, especially in industrial processes.

186 Window Design to Conserve Energy
70 minutes -- slide/audio -- color
Modern Talking Picture Service, Inc.
Tells about making windows more efficient. Part one outlines window exterior strategies; part two, frames and glazing; and part three, interior strategies.

Solar

187 The Attached Solar Greenhouse
28 minutes -- 16 mm -- color
Grade 7/Adult
Bullfrog Films
Explains the basic principles of greenhouse design, shows one being built and glazed, and tours a range of different greenhouses from low-cost owner-built structures and kits, to deluxe custom-designed and built greenhouses. For those who want to start small, there's even a section on solar grow-frames.

188 A Building in the Sun
20 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Depicts an economical and attractive commercial-size underground solar building. The architect and solar engineer explain, with the aid of animation, the environmental, aesthetic, and energy considerations that went into the design and construction of the Cary Arboretum's new Plant Science Building in Millbrook, NY.

189 Building the Brookhaven House
25 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Shows a passive solar demonstration project, a house designed to be an attractive and marketable home in the areas of the United States where energy costs are dominated by space heating. It's a documentary about the concepts and construction practices used in passive solar homes, for builders, architects, engineers, students and the solar-oriented public.

190 Build Your Own Greenhouse
21 minutes -- 16 mm -- color
Danamar Film Productions
Describes the important elements of greenhouse design, performance, and aesthetics through interviews with owners of greenhouses. The film follows the volunteers as they learn new construction skills and avoid mishaps in a fun-filled, barnraising fashion.

191 CAREIRS Passive Solar Slide Show
18 minutes -- 20 slides with cassette narration
Conservation and Renewable Energy Inquiry and Referral Service (CAREIRS)
Provides an introduction to widely-used applications of passive solar design. The slides can be duplicated for educational purposes.

192 A City Farmstead
15 minutes -- 16 mm -- color
High School/Adult
Phoenix Films, Inc.
Examines the life-support systems of the Integral Urban House in Berkeley, California. Shows its systems of solar capture, waste recycling and urban food production, including organic gardening and raising rabbits and chickens.

193 Desert Cloud
18 minutes -- 16 mm/videocassette -- color
Grade 7/Adult
Bullfrog Films
Shows an English architect, Graham Stevens, and his 75-foot "cloud," which self-inflates and takes off from the desert floor in Kuwait. It creates precious shade, and even causes "rain" to fall as water condenses on its underside. An example of passive solar principles.

194 Design With the Sun: Passive Solar Architecture
28 minutes -- 16 mm -- color

High School/Adult
Follows a tour with leading solar experts from Vermont to California to see innovative designs and building techniques that use passive solar principles. Included are such basic concepts as direct gain, built-in greenhouse and Trombe wall systems, and climatic and site considerations, orientation to the sun and wind, thermal mass and insulation, construction materials and techniques, and other design details.

195 Energy from the Day Star
22 minutes -- 16 mm -- color
Modern Talking Pictures
Explores the reality of solar energy today in a context of universal human values. Shows a number of passive solar buildings around the country and briefly introduces active systems.

196 Equal Rights to the Sun
25 minutes -- 16 mm/videocassette -- color
Grade 7/Adult
Bullfrog Films
Shows low-cost urban solar projects being built in Boston. Included are thermosiphoning air panels, a solar skylight, a breadbox water heater, and an enclosed south-facing porch.

197 Four Solar Building Slide Shows
Each show includes 20 slides and a script
Southwest Research and Information Center
Demonstrates the advantages of solar energy in housing designs. Emphasis is on low-cost, passive solar and other appropriate technologies. Introduction to The Use of Solar Energy, Introduction to Passive Solar Design, Low-Cost Solar Retrofits, and Twenty Solar Greenhouses You Can Build.

198 Full Circle
20 minutes -- 78 slides with cassette
Butti/Perlin
Presents the evolution of solar technology over the last 2500 years, and records the thriving water heating industry in California and Florida at the turn of the century, and illustrates how the sun is being used today.

199 Gift From the Sun
13 minutes -- 16 mm -- color
Unit 1 Film Producers
Shows the process the community of Summerset, New Jersey, went through in planning its Environmental Education Center. Operation of the building's solar heating and hot water system is very clearly explained. Describes the ecological relationships among plant and animal life on earth, the environment, and the sun.

200 Here Comes the Sun
15 minutes -- 16 mm -- color
Technical Information Center
Shows how solar energy can be used as an important asset in helping to relieve the energy crunch. Explains the principles of the operation of the sun collector and the solar energy system.

201 How to Make a Solar Heater
20 minutes -- 16 mm -- color
Handel Film Corporation
Follows the learning experiences of a young student who builds a solar heating unit for his workroom. Principles of solar energy are well illustrated through easy-to-understand narration and graphics.

202 If You Can See a Shadow
28 minutes -- 16 mm/videocassette -- color
Grade 7/Adult
Bullfrog Films
Uses just a pile of bricks and a pane of glass in Brick Brewer's introduction to passive solar principles. Tours 30 different passive projects in the Midwest, including mass walls, sunspaces, and passive hot water.

203 Installing Solar -- Some Early Lessons
30 minutes -- 16 mm -- color
Conservation and Renewable Energy Inquiry and Referral Service (CAREIRS)
Shows installers about proper installation and possible problems of domestic hot water systems. Some valuable consumer tips for selecting systems are given.

204 Learning about Light
9 minutes -- 16 mm -- color

Primary/Intermediate
PCI
Shows properties of light through the use of a magnifying glass and a prism. The color composition of light is demonstrated in a man-made rainbow. Light is related to heat, and stored light and heat in wood and coal is mentioned.

205 Learning About Solar Energy
10 minutes -- 16 mm -- color
Elementary
Paramount Communications
Shows children building a small house. Then they harvest corn and cook it over a wood fire and then with a solar cooker to demonstrate both the indirect and direct use of the sun's energy. The film shows children learning how different colors absorb or reflect heat.

206 New Mexico Passive Solar Buildings
13.5 minutes -- 16 mm -- color
Technical Information Center
Explains the three basic approaches to passive solar heating: direct gain with thermal mass, Trombe walls, and greenhouses.

207 New Mexico Solar Energy Association Passive Solar Slide Sets
Six sets, 20 slides each, with written text
New Mexico Solar Energy Association
Set A -- General -- provides an introduction to solar energy including definitions and pictures of various passive applications. Set B -- Direct Gain -- includes 11 different climates. Set C -- Solar, Geometry, Movable Insulation -- explores these three vital considerations. Set D -- Thermal Storage Walls -- includes masonry Trombe walls, drum walls and combination water and masonry walls. Set E -- Attached Greenhouses -- includes 12 different applications of both integral and retrofit greenhouses. Set F -- Convective Loops and Roof Ponds -- covers water and air convective systems, and roof ponds in California and New Mexico.

208 Opening Your Home to Solar Energy
28 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Shows ways to use low-cost, passive solar techniques in existing houses. Featuring noted solar architect David Wright, this film covers everything from a simple hot-air collector, to adding a picture window, enclosing your south-facing porch, building a sun room, or putting up a solar chimney for summer cooling.

209 Solar Energy: Narrated Slide Programs
Five sets, 20 slides each with tape narration
Solar Energy Educational Service, Inc.
"North" Collector Workshop -- presents the sequential process involved in building a low-cost, air-type solar heating panel named Solar Systems -- shows a diversity of solar energy applications ranging from a $17 solar cooker to an adobe home with an attached solar-greenhouse; Manufactured Domestic Use Solar Systems -- presents a mixture of commercially designed and manufactured active and passive solar systems for heating and cooling; Commercial, Multi-Family Residential and Large Scale Demonstration Solar Systems -- presents several commercial projects along with apartments and condominiums; Solar Greenhouses -- presents examples of attached and detached solar greenhouses, both owner-built and commercial.

210 The Solar Frontier
25 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Features three different solar houses in the Canadian snowbelt -- one active, one passive, and one hybrid -- all built for average-income families. With the aid of animation, the cost, performance, and technology of each house is explained by the architects and homeowners.

211 Solar Greenhouse Slide Series
Seven sets, 20 slides each with cassette narration
Solar Sustenance Team
Attached Solar Greenhouses -- provides a general introduction to attached solar greenhouses in various climates; Design -- includes

schematics which show basic solar principles and their application to solar greenhouse design; Construction -- provides a detailed sequence of the actual building of solar greenhouses. It highlights most critical aspects of the construction phase; Horticulture -- provides seasonal information on planting, maintaining, and harvesting of food crops in the greenhouse; Insects and Other Problems -- provides instructions on how to deal with common greenhouse pests, natural predators and organic controls; Community Solar Greenhouses -- provides examples from all over the country of this concept in year-round food production; Solar Greenhomes -- covers the toal integration of greenhouses as primary heating systems in new homes.

212 Solar Greenhouse Slide Show
56 slides with cassette and script
Ecotope Group
Covers the principles of solar greenhouses, including how to maximize solar gain, prevent heat loss, and provide for heat storage. A freestanding passive greenhouse, a commercial parabolic aquaculture greenhouse, and a passive greenhouse attached to a residence are described.

213 Solar Heating
28 minutes -- 16 mm -- color
Metabasis, Ltd.
Covers the prospects of using solar for heating new houses, with graphics and animation. It makes its points through interviews with several solar experts focusing on buildings in Wisconsin, and covers solar economics, employment opportunities and consumer tips.

214 The Solar Promise
28 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Shows that individuals, not institutions, are providing most of the creative thinking and emphasizes space and water heating as the most appropriate use of the sun right now. Illustrated with examples of beautiful new low-cost solar houses, and retrofits of existing buildings, from California to New England.

215 Solar Story
42 minutes -- four filmstrips with sound
Junior High/Senior High
Education Division, Northern Energy Corporation
Explores the sun's relationship to the earth. Includes: The Solar Story -- an introduction to the concept of solar energy in its various forms; Energy of the Sun -- an anatomy of the sun and the secrets of solar radiation; The Earth -- A Solar Greenhouse -- how the earth absorbs and uses solar energy to sustain life; and Imitating the Processes of Nature -- an explanation of various solar conversion systems, and a review of the social and environmental implications of solar energy.

216 Solar Visions
24 minutes -- 16 mm -- color
Upper Elementary/Adult
Malibu Films, Inc.
Deals with the sun as a pragmatic partial solution to an urgent problem. Explores the concept of solar building design, photovoltaics and solar heating.

217 Sunbuilders
20 minutes -- 16 mm -- color
National Audiovisual Center
Surveys simple low-cost construction techniques used to passively heat and cool homes. The film features a series of interviews with residents of passive solar homes, with builders, and with home loan officers of banks.

218 Sun-Dried Foods
29 minutes -- 16 mm/videocassette -- color
Grade 4/Adult
Self-Reliance Foundation
Shows use of the sun to dehydrate foods as a simple, inexpensive way to preserve home-grown products. It's part of the culture in Priscilla Lopez's Spanish-American village in New Mexico. Using traditional methods, as well as a solar crop dryer, Priscilla and her family demonstrate how to preserve corn, fruits, herbs, and meat.

219 Sun Power for Farms
12.5 minutes -- 16 mm -- color

Technical Information Center
Covers a variety of solar agricultural applications around the country: a greenhouse that uses solar heated water at Rutgers University, a solar pond in Ohio, solar heat for livestock shelters in Mississippi, solar heat and hot water for a milking barn in Kansas, peanut drying in Georgia, and corn drying in Kansas.

220 Switch on the Sun
15 minutes -- 16 mm/videotape -- color
Xerox Education Publications
Surveys various solar technologies in locations around the world. It describes solar as being in the future rather than near term.

221 Terraset Sun
20 minutes -- 16 mm/videocassette -- color
Solarium Productions
Depicts the development, planning, and operation of a solar underground elementary school in Reston, Virginia.

222 Zomeworks Solar Slide
21 slides with script
Zomeworks Corporation
Describes beadwall construction, drum heat storage, and skylid operation for passive solar design.

Renewable and Alternative Sources

223 Backyard Alternative Energy
25 minutes -- 16 mm -- color
Junior High/Adult
Coronet Films
A family film about a variety of alternative energy sources -- solar, wind, wood, pedal power, methane, animal power, etc.

224 Bill Loosely's Heat Pump
10 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Describes how Bill Loosely's house is heated with the aid of a heat pump, which uses solar energy stored in the ground below the frost level. With animated diagrams, Bill explains the basic principle of all heat pumps. His own provides a return in heat six times greater than the energy required to run it.

225 Energy: New Sources
Second Edition
24 minutes -- 16 mm/videocassette -- color
High School/Adult
Churchill Films
Surveys new sources of energy that are considered to have the greatest potential: solar, geothermal, nuclear fusion and synthetic fuels from coal or oil shale. The film points out that it will take time for any of these new sources to replace a significant percentage of our fossil fuel use and that we will therefore have to reduce our energy consumption.

226 Gasohol - Growing Some of Our Own Fuel
14 minutes -- 16 mm -- color
National Audiovisual Center
Examines research on alcohol motor fuels by U.S. Department of Agriculture scientists in Peoria, Illinois; Meridian, Mississippi; Louisiana; and Texas. The film emphasizes using crop residues to produce alcohol; looks at new fermentation methods; and explores possible use of sweet sorghum as an alcohol crop.

227 Geothermal - Nature's Boiler
7 minutes -- 16 mm -- color
High School/Adult
National Audiovisual Center
Shows that natural heat energy stored in and under the Earth's crust can be put to work. Just as geysers now supply half the electricity for San Francisco's needs, these reservoirs may heat, cool, and light homes and factories across the country.

228 A Gift from the Earth
26 minutes -- 16 mm -- color
National Audiovisual Center
Examines the various types of geothermal resources, where they are located, and how they can be used for various types of electrical power production, industrial process heat, space heating, and agriculture. Geo-

thermal developments are examined at Raft River and Boise, Idaho; at Ontario and Klamath Fall, Oregon; and at Honey Lake and Mammoth Lakes, California.

229 Gusts of Power
14 minutes -- 16 mm -- color
National Audiovisual Center
Covers wind machines used for rural and agricultural applications, including deep-well pumping and irrigation, building and water heating, cooling for crop storage, and refrigeration for dairy farms.

230 Harness The Wind
12 minutes -- 16 mm -- color
High School/Adult
Bullfrog Films
Traces progress from the primitive wind machine to 7th-century Persia to the contemporary Darrieus rotor providing electricity to light 600 homes on Magdalen Island, showing the gradual refinement of the windmill and the potential of wind-power technology.

231 Home Heating With Wood
28 minutes -- 16 mm -- color
Cornell University
Describes safe wood stove installation and provides many wood heating safety tips.

232 Kilowatts From Cowpies: The Methane Option
25 minutes -- 16 mm -- color
Grade 7/Adult
Bullfrog Films
Shows how dairy farm animal wastes can turn into a valuable, renewable source of energy -- methane, or biogas, can be used to generate electricity and to run motors. Many farm families could easily satisfy all their electrical and heating needs from methane produced by their own cows - and still have the nutrient-rich sludge to use as fertilizer.

233 Mac's Mill
12 minutes -- 16 mm/videocassette -- color
Grade 7/Adult
National Film Board of Canada
Shows how Mac Armstrong farms 2,000 acres of healthy woodland, and uses the free-flowing energy of a stream to power his sawmill. As fossil fuels reveal their true cost, older technologies are being dusted off and used.

234 Pedal Power
18 minutes -- 16 mm/videocassette -- color
Bullfrog Films
Traces the history of pedal and treadle machines from the genius of Leonardo da Vinci to the present day. In the search for new energy sources, the strength in human legs is being rediscovered as bicycle-powered machines are becoming popular again, and we see them at work on homesteads, in heart clinics, and in cottage industries - doing everything from grinding grain to ploughing a field.

235 Power from the Earth
13 minutes -- 16 mm -- color
National Audiovisual Center
Shows eight scientists, engineers, and managers describing various aspects of ootaining thermal energy from the earth for the production of electrical power.

236 Putting Energy Alternatives to Work
15 minutes -- 16 mm -- color
American Film House
Shows people building passive solar air heaters, a Savonius rotor wind machine, a methane digestor, and an active space-heating system.

237 SERI Slide Show
80 slides including script
U.S. Department of Energy, Information Office
Offers production of the Solar Research Institute located in Golden, Colorado and explains the various uses of alternate energy sources in the home and in industry.

238 Water Power
25 minutes -- 16 mm/videocassette -- color
Grade 7/Adult
Bullfrog Films
Presents the case for water power, one of the

simplest and most effective renewable sources of energy. Includes the history of small-scale hydro in North America, as well as visits to units of various sizes in use today. Also documents the set-up of a micro-hydro unit on a farm from its conception to production of power.

239 Wind: An Energy Alternative
12 minutes -- 16 mm -- color
National Audiovisual Center
Looks at the history and uses of wind power. Discussion focuses on efficiency, problems in the urban environment, experimental systems, and windmill use across the United States.

240 Wood Heat
28 minutes -- 16 mm -- color
High School/Adult
Media Resources Center
Addresses considerations involved in the use of wood heat. Discusses stove types for particular situations, safe installation, where to get free firewood, how to manage a woodlot.

241 Wood Heat Safety - and Danger
20 slides including script
Shelton Energy Research
Shows problems associated with woodstoves. Narrated by top experts in the field in graphic detail.

AUDIO-VISUAL SOURCES

Below are addresses of organizations that may supply films and slide shows about energy.

In Arkansas

University of Arkansas Cooperative Extension Service
1201 McAlmont
Little Rock, Arkansas 72202
376-6301

Arkansas Department of Education
Audio-Visual Services
Education Building - C
Little Rock, Arkansas 72201
371-2060

Arkansas Endowment for the Humanities
1010 West Third Street
Little Rock, Arkansas 72201
372-2672

Arkansas Energy Office
One State Capitol Mall
Little Rock, Arkansas 72201
1-800-482-1122

Arkansas Petroleum Council
Commercial National Bank Building
Little Rock, Arkansas 72201
375-9964

Stephen Cook
North Arkansas Community College
Harrison, Arkansas 72601
743-3000

Also contact your local gas or electric utilities.

Outside Arkansas

AERO
435 Stapleton Building
Billings, MT 59101

Aims Instructional Media Inc.
626 Justin Avenue
Glendale, CA 91201

Alliance to Save Energy
1925 K Street, NW - Suite 507
Washington, DC 20006
(202) 857-0666

American Farm Bureau Federation
Information Division
225 Touhy Avenue
Park Ridge, IL 60068
(312) 339-5850

American Film House
556 Ann Street
Birmingham, MI 48009

American Gas Association
Order and Billing Department
1515 Wilson Boulevard

Arlington, VA 22209
(703) 841-8661

American Institute of Driving Efficiency
892 Rice Street
St. Paul, MN 55117

American Petroleum Institute
Publications and Distribution Section
2101 L Street, NW
Washington, DC 20037
(202) 457-7160/-61

Ashland Oil, Inc.
Attn: Audiovisuals Coordinator
P.O. Box 391
Ashland, KY 41101
(606) 329-3846

Association Films, Inc.
8615 Directors Row
Dallas, TX 75247
(214) 638-6791

Mr. John T. Fitch
Association for Media-Based Continuing Education for Engineers (AMCEE)
Georgia Institute of Technology
Atlanta, GA 30332
(404) 894-3362

Atomic Industrial Forum, Inc.
7101 Wisconsin Avenue
Washington, DC 20014
(301) 654-9260

Audience Planners, Inc.
One Rockefeller Plaza
New York, NY 10020
(212) 489-7789

Barr Films
Box 5667
Pasadena, CA 91107
(213) 793-6153

Barrier Islands Coalition
c/o Dinesch C. Sharma
Environmental Consultant
2750 Rhode Island Avenue

Fort Myers, FL 33901
(813) 334-0883

BFA Educational Media
2211 Michigan Avenue
Santa Monica, CA 90406
(213) 829-2901

Bitterroot Films
Hammond Arcade
Missoula, MT 59801
(406) 728-2261

Bolton Institute Film Library
4 Linden Square
Wellesley, MA 02181
(617) 235-5320

Bullfrog Films
Oley, PA 19547
(215) 779-8226

Butti/Perlin
511 A Strand Street
Santa Monica, CA 90405
(213) 399-1742

Carousel Films
1501 Broadway
New York, NY 10036

Center for Energy Policy and Research
New York Institute of Technology
Old Westbury, NY 11568
(516) 686-7578

Chevron Film Library
6290 Sunset Boulevard
Hollywood, CA 90028
(213) 463-1705

Cheyenne Community Solar Greenhouse
Attn: Shane Smith
1603 Central Avenue, No. 400
Cheyenne, WY 82001
(307) 635-9340

Christensen Associates
Suite 200, Chapel North Building
62 North Chapel Street

Newark, DE 19711
(302) 454-1313

Churchill Films
662 North Robertson Boulevard
Los Angeles, CA 90069
(213) 657-5110

Conoco Inc.
High Ridge Park
Stamford, CT 06904
(203) 329-2300, ext. 3479

Conservation and Renewable Energy Inquiry and Referral Service (CAREIRS)
Box 8900
Silver Spring, MD 20907
800-523-2929

Consolidation Coal Company
Film Request
Public Relations Department
Consol Plaza
Pittsburgh, PA 15241
(412) 831-4067

Consumer Action Now (C.A.N.)
355 Lexington Avenue
New York, NY 10017
(212) 682-8915

Cornell University
Ithaca
New York, NY 14853

Coronet Films
65 East South Water Street
Chicago, IL 60601
1-800-621-2131

Crystal Productions
Airport Business Center
Box 11480
Aspen, CO 81611
(303) 925-8160

Danamar Film Productions
P.O. Box 272
Tesuque, NM 81611
(505) 983-5959

Document Associates, Inc.
211 East 43rd Street
New York, NY 10017
(212) 682-0730

Ecotope
2332 East Madison
Seattle, WA 98112

Education Activities, Inc.
1937 Grand Avenue
Baldwin, NY 11510

Educational Materials and Equipment Company
Attn: Department B
46 Lafayette Avenue
New Rochelle, NY 10801

Encyclopedia Britannica Education Corporation
425 N. Michigan Avenue
Chicago, IL 60611
(312) 321-6800

Energy Cooperative Extension Service
University of Rhode Island
College of Resource Development
Woodward Hall
Kingston, RI 02881

Energy Opportunities Consortium
Film Distribution Section
P.O. Box 2229
301 Church Avenue, SE
Knoxville, TN 37901
(615) 637-4553

Federal Highway Administration
400 Seventh Street, NW
Washington, DC 20590

Film Fair Communications
10900 Ventura Boulevard
P.O. Box 1728
Studio City, CA 91604

Film Management Center
Water and Power Resource Service
P.O. Box 25007

DFC
Denver, CO 80225

Films Incorporated
1144 Wilmette Avenue
Wilmette, IL 60091
(312) 256-4730

Great Plains National Instructional Television Library
Box 80669
Lincoln, NE 68501
(402) 472-2007

Green Mountain Post Films
Box 177
Montague, MA 01351
(413) 863-4754

Griffen Productions
Pells Road
Rhineback, NY 12572

Handel Film Corporation
8730 Sunset Boulevard
West Hollywood, CA 90069
(213) 657-8990

Harvest Films, Inc.
309 Fifth Avenue
New York, NY 10016
(212) 684-7950

Illinois Institute of Technology
IIT/V
IIT Center
Chicago, IL 60616
(312) 567-3460

Industrial Media, Inc.
The Media Center
6303 28th Street, SE
Grand Rapids, MI 49506

Inquiry Audio-Visuals
1754 West Farragut Avenue
Chicago, IL 60640
(312) 561-9200

IHI (Ishikawajima-Harima Heavy Industries Company, Ltd.)
Public Relations Department
2-1, 2-Chome
Ohtemachi, Chiyoda-ku
Tokyo 100, Japan

International Association of Geophysical Contractors
7207 Regency Square Bouelvard
Sutie 140
Houston, TX 77036
(713) 789-8550

Karol Media
625 From Road
Paramus, NJ 07652
(800) 526-4773

Louisiana Association of Independent Producers and Royalty Owners
Box 65197
Baton Rouge, LA 70896
(504) 926-8744

Mr. Fred James
Lumen-Bel, Inc.
303 West 11th Street
New York, NY 10014
(212) 243-3426 or
(800) 621-1466, ext. 6062
in Illinois (800) 972-1966, ext. 6062

MacMillan Films, Inc.
34 Macquesten Parkway, South
Mt. Vernon, New York 10550

Malibu Films, Inc.
Box 428
Malibu, CA 90265
(213) 456-2859

Media Resources Center
121 Pearson Hall
Iowa State University
Ames, IA 50011

Metabasis, LTD
P.O. Box 5552
Madison, WI 53705

McGraw-Hill Films, Inc.
Department B7
1221 Avenue of the Americas
New York, NY 10020
(212) 997-1221

Modern Talking Picture Service, Inc.
Films are booked from:
Film Scheduling Center
5000 Park Street North
St. Petersburg, FL 33709
TV and Theatrical: (800) 237-8913;
other films (813) 541-7571

Monumental Films
2160 Rockrose Avenue
Baltimore, MD 21211

Moody Institute
12000 East Washington Boulevard
Whittier, CA 90606
(213) 698-8256

MTI Teleprograms, Inc.
4825 North Scott Street
Suite 23
Schiller Park, IL 60176
(213) 671-0141 or (800) 323-1900

National Audiovisual Center
Archives/Records Service
General Services Administration
Order Section
Washington, DC 20409
(301) 763-1896

National Coal Association
1130 17th Street, NW
Washington, DC 20036
(202) 628-4322

National Film Board of Canada
1251 Avenue of the Americas
New York NY 10020
(212) 586-5131

National Fire Protection Association
470 Atlantic Avenue
Boston, MA 02210
(617) 482-8755, ext. 288

National Highway Institute
400 Seventh Street, SW
Washington, DC 20590

National Lubricating Grease Institute
4635 Wyandotte Street
Kansas City, MO 64112
(816) 931-9480

National Training Fund
Sheet Metal and Air Conditioning Industry
1900 L Street, NW
Washington, DC 20036

New Mexico Solar Energy Association
P.O. Box 2004
Santa Fe, NM 87501

New York State Alliance to Save Energy, Inc.
36 West 44th Street, Suite 501
New York, NY 10036
(212) 840-8383

Nuclear Regulatory Commission
Atomic Building
1717 H Street, NW
Washington, DC 20555

Paramount Communications
6912 Tujunga Avenue
North Hollywood, CA 91605

Passive Solar Institute
P.O. Box 722
Davis, CA 95616

PCI
626 Justin Avenue
Glendale, CA 91201

Petroleum Equipment Suppliers Association
9225 Katy Freeway, Suite 401
Houston, TX 77024
(713) 932-0168

Petroleum Extension Service
The University of Texas at Austin
10100 Burnet Road
Austin, TX 78758
(512) 835-3163/-3164

Phoenix Films, Inc.
468 Park Avenue South
New York, NY 10016
(212) 684-5910

The Polished Apple
3742 Seahorn Drive
Malibu, CA 90265
(213) 459-2630

Projections, Inc.
Brook Road
Warren, VT 05674
(802) 496-3991

Pyramid
1537 14th Street
Box 1048
Santa Monica, CA 90406
(213) 828-7577

Ramsgate Films
704 Santa Monica Boulevard
Santa Monica, CA 90401
(213) 394-8819

Research Reports Center
P.O. Box 50490
Palo Alto, CA 94303
(415) 965-4081

James L. Ruhle and Associates
P.O. Box 4301
Fullerton, CA 92631
(714) 526-6120

RHR Filmedia, Inc.
9 East 39th Street
New York, NY 10016
(212) 686-9833

Screen News Digest
235 East 45th Street
New York, NY 10017
(212) 682-7690

Screenscope, Inc.
1022 Wilson Boulevard
Suite 2000
Arlington, VA 22209

The Search for Solutions Booking Center
708 Third Avenue
New York, NY 10017
(800) 223-1928

Self Reliance Foundation
Las Trampas, NM 87576
(505) 689-2250

Shell Oil Company Film Library
1433 Sadlier Circle West Drive
Indianapolis, IN 46239
(317) 872-7440

Shelton Energy Research
P.O. Box 5235
Department ASE
1517 Pacheco Street
Santa Fe, NM 87502

Solar Energy Educational Service, Inc.
P.O. Box 307
Eaton, CO 80615
(303) 454-3618

The Solar-Ed Corporation
1627 Litchfield Turnpike
P.O. Drawer X
Woodbridge, CT 06525
(203) 624-5151

Solar Engineering Magazine
8435 North Stemmons Freeway
Suite 880
Dallas, TX 75247

Solar Sustenance Team
P.O. Box 733 AA
El Rito, NM 87530
(505) 581-4454

Solarium Productions
1061 31st Street, NW
Washington, DC 20007
(202) 337-6526

Solpub Company
Box 9209
College Station, TX 77840

Southern Pacific Pipelines
610 South Main Street
Los Angeles, CA 90014

Southwest Research and Information Center
P.O. Box 4524
Albuquerque, NM 87106

The Standard Oil Company (Ohio) Film Library
c/o Cinecraft
2515 Franklin Boulevard
Cleveland, OH 44113
(216) 781-2300

Stuart Finley, Inc.
3428 Mansfield Road
Falls Church, VA 22041
(703) 820-7700

Technical Information Center
U.S. Department of Energy Film Library
P.O. Box 62
Oak Ridge, TN 37830
(615) 576-1287

Texas Eastern Transmission Corporation
Projects Development
Public Relations Division
P.O. Box 2521
Houston, TX 77001
(713) 651-0161

Third Eye Films
12 Arrow Street
Cambridge, MA 02138
(617) 491-4300

Time-Life Multimedia Distribution Center
100 Eisenhower Drive
Paramus, NJ 07652
(201) 843-4545

Unit I Film Producers
540 West 114th Street
New York, NY 10025

U.S. Department of Agriculture
Science and Education Administration
5142 South Building
Washington, DC 20250
(202) 447-3987

U.S. Department of Energy
Morgantown Energy Technology Center
Librarian
P.O. Box 880
Morgantown, WV 26505
(304) 559-7183/84

U.S. Department of the Interior
Geological Survey
Branch of Visual Services
303 National Center
Reston, VA 22092
(703) 860-6171

U.S. Department of the Interior
Water and Power Resource Service
Film Management Center
P.O. Box 25007, DFC
Denver, CO 80225
(303) 234-3000

U.S. Department of Labor
Mine, Safety and Health Administration
4800 Forbes Avenue
Pittsburgh, PA 15213
(412) 621-4500

University of California
Extension Media Center
2223 Fulton Street
Berkeley, CA 94720

University of Colorado
Education Media Center
Stadium Building
Boulder, CO 80309
(303) 492-7341

Small Homes Council - Building Research Council
University of Illinois
One East Saint Mary's Road
Champaign, IL 61820
(217) 333-1801

Audiovisual Library Service
Continuing Education and Extension

University of Minnesota
330 University Avenue, SE
Minneapolis, MN 55414

Valero Energy Corporation
630 McCullough
P.O. Box 550
San Antonio, TX 78292
(512) 229-2025

Visucom Productions, Inc.
Box 5472
Redwood City, CA 94063
(415) 364-5566

Walter J. Klein Company, Ltd.
6301 Carmel Road
Box 220766
Charlotte, NC 28222
(704) 542-1403

World Research, Inc.
11722 Sorrenton Valley Road
San Diego, CA 92121
(714) 755-9761

Xerox Educational Films
245 Long Hill Road
Middletown, CT 06457
(203) 347-7251

Zomeworks Corporation
P.O. Box 712
Albuquerque, NM 87103

SUBJECT INDEX

All topics refer to the over-all subject of energy. Activities for children, for instance, could be read "Energy Activities for Children;" Africa would refer to "Energy in Africa."

The numbers listed are entry numbers not page numbers.

Three-digit numbers denote films. Four-digit numbers indicate books, directories or magazine articles. All entries are listed in the index at least once, some several times.

A

Acid Rain and Snow, 1043
Activities for Children, 1017, 1018
Africa, 1094
Agribusiness, 1220
Agriculture
122 219 1060 1111 1704
132 1003 1065 1220 1814
152 1016 1089 1221 1823
- alcohol from crop residues, 227
- conservation, 1245, 1264, 1266
- fuel efficiency, 1300
- global, 1082
- irrigation, 1347
- methane, 233
- permaculture, 1172
- solar applications, 1545
Alaska Oil Pipeline, *see* Fossil Fuels; Oil
Alcohol, 1067, 1089, 1105, 1629, 1691
Alcohol Fuels
A13 1633 1661 1686 1717
277 1653 1671 1688 1810
1618 1654 1673 1689 1818
1619 1659 1684 1692 1824
1620 1660
- college level, 1621
- conversion of gasoline engines, 1671
- employment, 1622
- permits, 1619
- regulations, 1690
- stills, 1663
Alternative Sources
A01 237 1099 1438 1662
A13 240 1135 1619 1674
A15 241 1136 1620 1685
118 1033 1137 1621 1697
129 1038 1153 1622 1701
144 1051 1158 1623 1704
223 1065 1204 1639 1709
224 1081 1206 1643 1720
226 1082 1207 1644 1738
228 1083 1225 1652 1747
229 1084 1230 1655 1767
233 1087 1245 1659 1811
235 1089 1261 1661 1812
236 1093 1408
- global, 1227
Anaerobic Digesters/Digestion
233 1627 1693 1695 1696
1089 1645
Animal Power, 223
Annual Review, 1006
Appropriate Technology
A15 1186 1206 1746 1814
129 1195 1720 1785 1823
1136
- women, 1209
Aquaculture
132 1089 1564 1629 1704
212 1444
Architecture
1007 1009 1054 1758 1824
1008 1047 1704
- bioclimatic, 1048
- earth shelter
1249 1252 1301 1372 1382
1250
- ecodesign, 1573
- landscaping, 1342

- solar, 1537
- solar history, 1448
Arkansas Specific, A13, 1010, 1011, 1012
American Society of Heating, Refrigeration and Air-conditioning Engineers (ASHRAE) 1013
- standards, 1268
Asia, 1094
Atomic, *see* Nuclear
Audits, 158, 1233, 1334, 1361
- florists, 1256
- hotels/motels, 1257
- lighting, 1344
- warehouses, 1367

B

Beadwall Construction, 222, 1406
Bicycles, 1748
Bicycling, 235, 1236, 1720
Biofuels, 1089, 1127
Biogas
233 1625 1630 1635 2627 2636
- cotton gin trash, 1282
Biomass
A01 1113 1624 1632 1807
133 1438 1628 1651 1815
153 1543 1629 1702 1816
233 1549 1630 1720 1819
1099 1555 1631 1722
Body Insulation, 1748
Brazil, 1151
Brown, Lester R., 1196
Building, 1011, 1013, 1019, 1021, 1186
- codes, 1038
- conservation, 1238
- design, 1036
- principles, 1193
Buildings, 1008, 1009, 1023
- commercial, 1024
- energy use, 1024
- residential, 1024
Building Your Own Home
1112 1148 1377 1634

C

Caldicott, Helen, 1163
Careers, 1025, 1230
Carpools, A09, 159, 174
Cars
- design, 1049
Cars, *see also* Driving Efficiency; Conservation - transportation
Caulking, 171, 175
Centralized Production, 1200
China, 1151
Citizen Action
105 1120 1182 1390 1639
1002 1132 1183 1594 1747
1029 1139 1239 1612 1785
1095 1175 1350
City Farming, 106, 192
Clean Air, *see* Environmental Impact
Climate Compatible Design, 1023, 1048
Clothing, 1141
Coal
131 1090 1100 1101 1113 155
- acid rain, 1043
- alternative fuels, 1138
- economics, 1053
- elementary, 1099
- gasification, 103, 133
- health, 1124
- land reclamation, 121, 134
- liquefaction, 103, 123
- methane extraction, 1624
- mining, 102, 134
- slurry pipeline, 138
- Soviet, 1107
- stored heat and light, 204
- strip-mining, 104, 121

- transportation, 102
Coal, *see also* Fossil Fuels
Coal-burning Stoves, 1129
Cogeneration, 117, 1388
College Level, 1621, 1761, 1763, 1795, 1803
College Students, 1544
Colleges and Universities
- conservation measures, 1237
Colleges
- junior and community, 1072
Commoner, Barry, 107, 1030, 1062, 1177
Community Building, 1195
Community Initiatives
111 1029 1120 1239 1639
144 1040 1137 1255 1699
157 1064 1139 1350 1714
172 1067 1150 1390 1738
178 1073 1156 1514 1785
199 1080 1175 1594 1814
1002 1119 1191 1612 1823
1020
- poor and elderly, 105
Community Planning
111 1040 1236 1511 1772
1019 1073 1272
Compost/Composting, A15, 1105
Composting Toilets
1035 1117 1217 1520 1782
Congressional Coalition, 1020
Conservation
A01 166 1097 1152 1289
110 173 1100 1156 1290
113 1020 1104 1174 1456
129 1074 1137 1226 1483
158 1076 1138 1272 1714
165 1083 1144
- accounting, 1375
- agriculture, 1245, 1264, 1300, 1307, 1755
- apartments, 1274, 1323
- appliances, 161, 164, 1337, 1351
- as alternative source, 1292
- ASHRAE standards, 1268
- auto repair shops, 1275
- automobile dealership, 1365
- bakeries, 1279
- building maintenance, 1348
- buildings, 161, 1036
- churches, 1281
- classroom experiments/lessons
1146 1258 1263
- colleges, 1109, 1237
- commercial
117 182 1070 1258 1265
155 1054 1241
- commercial printers, 1276
- community, 111, 117, 157, 1073, 1245
- consumers, 1259
- consumer tips, 1787
- cost effectiveness, 1288, 1371
- cotton gin, 1282
- dairies, 1042
- design
1008 1009 1017 1272 1745
- economic disincentives, 1255
- economics, 1267, 1270, 1314
- education, 1263
- elderly, 1059
- electricity, A03, 176, 1235, 1241
- electric motors, 1287
- elementary, 1146
- employment, 1435
- farming, 180
- financing, 1329, 1330
- fireplaces, 1337
- florists, 1256
- food retailers, 1284
- food service, 1241, 1302
- food system, 1269
- forestry, 1245
- furniture manufacture, 1333
- greenhouses, 1256
- history, A02
- hospitals, 1233
- hotels/motels, 1257, 1378
- hot water, 168, 1259
- individuals, 1335

- industrial
117 182 1054 1265 1755
155 185 1070 1336
- inefficient buildings, 1242
- investment, 1288
- irrigation, 1347
- kitchen, 164, 1293
- landscaping
1038 1316 1337 1341 1342
1246
- laundry/dry-cleaning, 1280
- life-cycle cost, 1343
- lighting, 161, 1337, 1353
- low-cost
1022 1297 1318 1328 1346
1295
- low-cost/no-cost, 1233, 1352, 1364, 1371
- maintenance, 1449
- management, 1270
- mobile homes, 1392
- old houses
1243 1352 1362 1366 1398
1298
- police cars, 1356
- policy, 1261, 1291
- product claims, 1037
- residential
A02 1045 1238 1315 1374
117 1054 1240 1317 1376
155 1070 1244 1318 1380
160 1126 1258 1319 1397
162 1127 1262 1323 1399
163 1128 1285 1331 1400
167 1141 1286 1337 1557
169 1149 1290 1339 1577
171 1192 1297 1340 1614
175 1193 1299 1354 1674
182 1199 1307 1361 1675
183 1222 1311 1363 1676
184 1232 1312 1371 1677
186 1234 1313 1373 1755
- residential (game), 1321
- residential/commercial, 1212
- retail stores, 1277, 1344, 1357
- retarded citizens, 1260
- retrofit, 1234, 1242, 1285, 1295
- schools, 221, 1322
- service stations, 1278
- site planning, 1262
- solar, 1515
- solid waste, 1273, 1306
- tax policies, 1271
- textile industry, 1284
- town and city, 1286
- transportation
A02 159 1070 1330 1648
A04 170 1141 1358 1659
A06 174 1219 1379 1665
A09 179 1236 1381 1697
117 181 1327 1624 1783
155 182
- transportation (rural), A08
- urban, 1159
- warehouses, 1303, 1367
- water, A03, 157, 183, 184, 1117
- water heating, 1241, 1328
- wholesale distribution, 1360
- windows, 1395
Construction
- financing, 1074
- low-cost, 1377
- residential, 1112
Consumers
125 1038 1175 1343 1656
148 1039 1207 1354 1769
152 1095 1244 1389 1773
172 1137 1259 1391 1785
1037 1149 1335 1396
- earth shelter, 1252
- home-buying, 1294
- home heating devices, 1299
- solar, 203, 213, 1416
- solar buying, 1416, 1421, 1464, 1510
- utilities, 1028
- wind, 1731
- wood heating, 1641

Consumption, 111, 1062, 1078, 1097
- international, 1151
Conversion
1075 1082 1096 1097 1203
- losses, 113
Cooking Efficiently, 1293
Cooperatives, 125
Crisis
A02 155 1083 1190 1759
112 1063 1137 1230 1760
117 1070 1167 1753 1781
119
- created, 1098
Crop Residues
- alcohol, 227
- combustion, 1643
Curriculum, 1010, 1018, 1750, 1757, 1759

D

Davis, California, 144
Day Star, 194
Decentralization, 1204, 1206, 1600, 1704
Design, 1054, 1074, 1203
- buildings, 1047
- climate, 1048, 1193
- impact of solar, 1537
- motor vehicles, 1049
- thermal storage, 1046
- with nature, 1213
Developing Countries, 1094, 1104, 1114, 1151
Development
- global, 1228
Dictionary, 1071
Disabled, 1068
Do-It-Yourself Repairs, 1192
Dome Homes, 1022, 1748
Double Envelope Houses, 1373, 1432, 1433
Driving Efficiency, A04, A06, 179
- trucks, 1379
Driving Efficiency, *see also* Carpools; Vanpools; Conservation - transportation

E

Earth Shelter
188 1232 1305 1383 1473
221 1247 1320 1384 1642
1007 1249 1324 1385 1720
1148 1253 1325 1386 1784
1208 1254 1382 1387 1824
1214 1301
- code/zoning/finance, 1251, 1305
- design, 1250, 1252
- low-cost, 1296, 1345
- site planning, 1252
- sunbelt, 1372
Ecology
107 129 1051 1172 1213
114 199 1062 1176 1639
121 216 1105 1178 1711
122 1030 1142 1195 1777
- four principles, 107
Economic Development, 1157, 1212
Economic Impact
A15 183 1084 1160 1288
102 234 1086 1173 1291
108 1005 1088 1177 1408
113 1017 1090 1178 1435
116 1041 1092 1190 1438
119 1050 1093 1204 1598
129 1051 1094 1206 1600
143 1053 1096 1209 1629
146 1061 1121 1226 1643
156 1075 1123 1229 1726
165 1083 1142 1255
- nuclear war, 1140
- poor and elderly, 105
- solar and conservation, 1054
Economics
1005 1113 1225 1292 1644
1054 1178 1255 1343 1646
1086 1182 1267 1467 1659
1092 1184 1272 1470 1696
1096 1203 1288 1483
Economics of Scale, 1204, 1205

Education, 1029, 1191
Efficiency
129 144 161 173 1334
- building, 1074
- community, 1073
- design
117 1023 1148 1294 1400
1008 1045 1268 1355 1745
1019 1144
- driving, 179
- electricity, 1235
- farming, 122, 180
- greenhouses, 1436
- homes
A07 176 1240 1315 1346
160 184 1294 1317 1354
167 186 1311 1319 1377
169 1045 1312 1339 1398
175 1218 1314 1340 1399
- planning, 1786
- railroad freight, 1358
- systems, 1390
Efficiency, Not Sacrifice, 1352
Elderly
105 1066 1121 1175 1224
1032 1068 1142 1179 1255
1059
Electric Motors
- industrial and commercial efficiency, 1287
Electric Power
A03 140 1062 1093 1226
113 1017
Electric Power Generation, 1096, 1155
- coal generated, 104, 1184
- cotton gin trash generated, 1282
- domestic (wind, water, solar), 1683
- geothermal generated, 228, 229, 236, 1667
- health, 1124
- hydroelectric
112 150 234 239 1655
- methane generated, 233, 1707
- micro-hydro, 1699, 1716
- nuclear generated, 120, 129, 130, 1184
- shortages, 112
- small scale, 1704, 1716
- solar generated (photovoltaics)
A10 1426 1431 1498 1554
198 1430 1475 1499 1605
216
- usage (satire), 115
- waste generated, 1643
- wind generated
A13 1666 1680 1724 1727
230 1672 1681 1725 1732
231
Electric Vehicles
1004 1049 1057 1058 1744
1044 1056
- conversion from conventional, 1133
Electrolytic Hydrogen, 1055
Elementary Level
A01 172 221 1155 1543
A03 173 1017 1402 1611
A10 178 1018 1418 1649
104 204 1079 1427 1750
110 205 1091 1437 1777
124 216 1099 1440 1803
152 218 1146 1472 1824
166
Encyclopedia, 1774
Engineering, 1013, 1106
Envelope House, *see* Double Envelope Houses
Environmental Impact
A12 151 1061 1142 1598
107 156 1062 1176 1629
108 157 1075 1177 1640
116 159 1079 1190 1662
127 1001 1092 1201 1667
129 1015 1094 1291 1701
134 1019 1113 1408 1726
135 1030 1116 1438 1755
142 1043 1123 1554 1759
147 1051
- coal
102 109 121 134 165
104

Ethanol
227 1648 1653 1654 1671
1620
- farm crops, 1690
Ethics, *see* Philosophy
Experiments
- junior and senior high school, 1063
Exponential Growth, 147
Exponential Growth, *see also* Population Growth

F

Fairs, 1119, 1150, 1191
- organizing, 1029
Fairs, *see also* Workshops
Family, A01, 223, 1699
Farm to Market, A15, 125
Farming, 152, 1078, 1220, 1221, 1768
- alcohol fuels, 227
- alternative fuels, 1652
- biomass, 1632, 1722
- crop drying, 1545, 1643
- dairy, 230, 233, 1042, 1458, 1645
- efficiency, 180, 1307
- fish, 1444
- fuel efficiency, 1300
- irrigation, 1347
- micro-hydro, 239
- sea, 1629
- small-scale, 132, 180
- soil, 1711
- solar implications, A11, 219, 1458
- urban, 106, 192
- waste as resource, 1625, 1627
- with nature, 122
- woodland, 234
Federal Legislation, 1072
Federal Programs, 1659
Federal Regulation/Over-regulation,1098,1100
Federal Regulations, 1039
Fermentation, 1691
Fiber Production, 1221
Financial Assistance
- elderly, 1066
Financing, 1109
Finite Resources
- global, 1085
Fireplaces, 1648, 1670, 1742, 1829
Fission, *see* Nuclear
Fitchburg, Massachusetts, 144
Food, 1111, 1141
- chain (nature), A10, 142, 205, 1079, 1437
- cooking habits/recipes, 1293
- dryers/solar dryers
1422 1462 1491 1559 1560
1434 1465
- greenhouse fish, 1444
- greenhouses, 1067
- growing your own, 166
- preparation, 1302
- preservation, 148, 218, 1422, 1434
- processing, 1016
- production
152 1078 1079 1172 1211
192
- production (small-scale), 1609
- self-sufficiency, 1108
- systems, 125, 1082, 1102, 1269
Ford Foundation, 1164
- sponsored, 1100
Forestry, 234
Fossil Fuels
118 141 155 1092 1096
128 153 1076 1093 1225
133 154 1081
- dependence, 113, 119, 152
- formation, A10
- global, 1226
- jobs, 1230
- offshore drilling, 128, 133, 149
- shortage, A01, 1554
Fossil Fuels, *see also* Coal; Natural Gas; Oil
Foundation Proposals, 1185
Fuel Adjustment Clause, 1028

Funding
- federal sources, 1110
Fundraising, 1122, 1185, 1199, 1594
- community, 1120
- local projects, 1100
Fusion, *see* Nuclear
Future
113 1014 1100 1150 1209
114 1019 1104 1152 1227
115 1040 1111 1160 1228
117 1041 1113 1171 1435
129 1052 1114 1181 1514
139 1081 1116 1182 1578
144 1083 1121 1186 1598
146 1084 1136 1196 1603
155 1087 1138 1200 1711
185 1092 1142 1206 1738
231 1094
- elderly, 1032
- generations, 1018

G

Gas From Landfills, 1694
Gas, *see* Fossil Fuels; Natural Gas
Gasohol, 227, 1648, 1664, 1665
Gasoline
- conversion from, 1033
- rationing, 1187
- saving, A04, A06, 179, 1327, 1330
- use, 181
Gasoline, *see also* Conservation - transportation; Fossil Fuels; Oil
Gasoline Engine Conversion
- alcohol, 1624
- peat, charcoal, coal, 1706
- to Methane/Methanol, 1697
- wood/wood-gas, 1685, 1706, 1739, 1740
Geothermal
A01 155 229 1113 1667
110 226 236 1646 1669
150 228 1101 1647 1708
- commercial, 1637
- development, 1700
- elementary, 1146, 1402, 1649
- health, 1124
- patents, 1779
- Soviet, 1107
Glazing, 171
Global Marketplace, 1086
Global Resources
147 1100 1181 1190 1229
157 1142
Global Systems, 1085
Global 2000 Report, 1116
Glossary, 1762
Good News, 1118
Government
- documents, 1751
- NASA, 1752
- programs
1002 1087 1157 1769 1785
1050 1110 1175 1778 1791
1068 1156 1179
- regulation, 1187
Government, *see also* Grants
Grants, 1110
- government, 1050
- U.S. Department of Energy, 1002
Greenhouses, *see* Solar Greenhouses
Groundwater, 1202

H

Harrisburg, Pennsylvania (Three Mile Island) 126
Harvard Business School, 1083
Hayes, Denis, 1291, 1408, 1438, 1598
Health
127 1043 1124 1223 1823
142 1123 1173 1224
Heat Pumps, 224, 1125, 1308, 1309, 1310
Heating Systems, 1026, 1027
Heating, *see* Solar; Wood

Heating, Ventilation and Air-conditioning (HVAC)
1011 1231 1272 1308 1310
1013 1268 1302 1309 1340
1125 1270
- maintenance, 1248
Heating, Ventilation and Air-conditioning (HVAC), *see also*, Solar Heating and Cooling
Henderson, Hazel, 1041, 1178
Hiroshima, 142
History
A01 140 1051 1138 1405
A03 144 1072 1190 1448
A14 185 1075 1209 1603
113 1005 1081 1230 1728
139 1014 1088 1292
- solar, 198
- wind, 231, 240
Home Efficiencies, *see* Conservation - residential
Homestead, 1148
Hubbert, M. King, 144
Hydro, *see* Water Power; Electric Power
Hydrogen, 150, 1055, 1113, 1771
Hydroponics, 1492, 1609
Hydropower, 1096
Hypothermia, 1224

I

Illich, Ivan, 1598
Import-Export, 1151
Indian, *see* Native American; Navajo
Industrial Processes, 1749
Infiltration (Air), 171
Insulation
A05 184 1218 1262 1362
167 1202 1222 1285 1373
169 1212 1234 1326 1374
175 1214 1259 1331 1398
- consumer tips, 1389
- movable, 1349, 1442, 1489, 1531
- National Association of Home Builders, 1338
- water heaters, 1328
- windows, 1339, 1363, 1376, 1496, 1824
Interdependence, 1061
Islands, 1080

J

Japan, 1151
Job Opportunities
A11 1230 1435 1470 1622
- government, 1025

K

Kilowatt Counter, 1773

L

Lambeth, James, 1536
Landscaping for Conservation
1246 1316 1341 1342
Latin America, 1094
Legislation, 1484, 1578, 1596, 1667
Life-Cycle Cost, 1272, 1343, 1479
- paybacks, 1203
Lifestyle
115 234 1158 1204 1219
148 1145
Lifestyle Index, 1141
Light/Color/Heat (Elementary), 204, 205
Limits to Growth, 1142
Log Homes, 1748
Lovins, Amory
114 1069 1206 1227 1598
129
Lovins, Amory and Hunter, 129, 1104
LP Gas, 1033, 1034
- use in vehicles, 1134

M

Magnetohydrodynamics (MHD), 1194
Management Systems
117 162 1272 1284 1336
158 1144 1283 1334 1343
- accounting and reporting conservation, 1375
- colleges, 1237
- retail stores, 1357
Mass Transit, 159
- rural, A08
Massachusetts Public Interest Research Group 1095
Mentally Retarded Citizens
- conservation, 1260
Mesa Verde Solar Pueblo, A14, 214
Methane
A13 233 1623 1693 1696
153 237 1635 1694 1707
154 1105 1645 1695 1811
223 1520 1674
Methane/Methanol
1101 1624 1629 1648 1697
Methane/Methanol, *see also* Anaerobic Digesters
Mexico, 1151
Mickey Mouse, 1146
Morality, 114
MPG (Miles per Gallon)
170 179 181 1327 1381

N

National Defense, 1103
National Energy Plan, 1200
Native American, 132
Natural Gas, A03, 1090, 1101
Natural Gas, *see also* Fossil Fuels
Natural Lighting, 1792
Nature and Natural Systems
122 1030 1213 1382 1702
151 1176 1342 1427 1709
Navajo
- uranium mining, 127
Nigeria, 1151
No-till Planting, 122
Nuclear, 1096, 1100
Nuclear Fission
110 155 1053 1100 1123
112 156 1076 1101 1131
129 1001 1087 1104 1182
130 1052 1090 1113 1200
150
- accidents, 120, 126, 1215, 1216
- benefits, 1016
- breeder reactors, 135, 1177
- fuel cycle, 101, 127, 1188, 1226
- health, 1124
- history, 1216
- information sources, 1165
- medicine, 1016
- opposition, 1095, 1160, 1161, 1163, 1770
- plant safety, 120, 1131
- pro and con
120 136 1031 1164 1165
135
- radiation, 142, 1131
- research and development, 1014
- safety, 1015
- Soviet, 1107
- uses, 1016
- waste, 1189
- waste (disposal)
101 135 1015 1188 1189
120
- weapons/power/proliferation
101 135 1015 1104 1162
Nuclear Fission, *see also* Three Mile Island
Nuclear Fusion, 129, 130, 156, 226, 1113
Nuclear Industry Careers, 1230

O

Ocean Wave Power, 1822

Oil
118 128 149 1017 1090
124 141 155
- dependence, A02, 113, 152
- exploration, 145
- pipeline, 137
- refining, 143
- shale, 226, 1101
- shale (health), 1124
Oil, *see also* Fossil Fuels
Oil Burners, 1166
OPEC, 1226
Organizations, 1754
Organizing, 1612, 1714, 1814
- events
1119 1120 1122 1191 1199
- fundraising, 1780
- volunteers, 1139
OTEC (Ocean Thermal Energy Conversion)
A01 1113 1549
Owner-Builders, 1168, 1169
Owner-Builders, *see also* Building Your Own Home

P

Patents, 1170, 1779
Pedal Power, 223, 235, 1105, 1705
Permaculture, 1172
Petroleum-based Transportation, 1196
Petroleum, *see* Fossil Fuels; Oil
Philosophy
A01 129 151 1062 1204
A12 132 195 1069 1227
107 144 216 1152 1408
108 146 1030 1160 1598
114 147 1051 1171 1603
- Soviet, 1107
Photosynthesis, A10
Photovoltaics, *see* Electricity - solar generated; Solar - photovoltaics
Plant Operation and Maintenance, 1348
Policy
A12 1030 1104 1239 1511
101 1040 1116 1252 1578
107 1041 1121 1261 1595
111 1050 1142 1266 1600
113 1052 1144 1271 1628
120 1061 1151 1272 1656
126 1064 1152 1291 1659
129 1067 1160 1330 1667
147 1069 1200 1370 1701
1014 1083 1201 1408 1734
1019 1087 1204 1470 1738
1020 1088 1227
Political Impact
108 172 1123 1183 1229
127 1005 1177 1188 1408
129 1064 1178 1190 1598
135 1084 1182
Pollution, *see* Environmental Impact
Poor
105 1067 1142 1179 1595
1039 1068 1175 1255 1756
Population Growth (vis-a-vis World's Resources), 147, 1079
Population Growth, *see also* Exponential Growth
Power Plant Siting
- community response, 1772
Press Coverage, 1122
- how to get it, 1115
Press Coverage, *see also* Publicity
Private Sector, 1201
Propane, 1033, 1034
- use in vehicles, 1134
Publicity, 1191, 1199
Publicity, *see also* Press Coverage

R

R-Values, 167, 184
Radiation, 142, 1124, 1188
Radioactive Dating, 1016

Radioactive Waste, 1188, 1189
Real Estate, 1144
Reconceptualization, 1178
Recycling
A15 172 192 1117 1350
161 177 233 1304 1359
165 178 1017 1332 1782
166
- agricultural wastes, 1060
- legislation, 1370
- mandatory container deposit, 1180
Recycling, *see also* Resource Recovery
Reese, Ray, 1600
Refrigeration, 1013
Regulation, *see* Federal Regulation/Over-regulation; Federal Regulations
Renewable Resources
A01 234 1040 1207 1702
A11 237 1051 1227 1711
A13 238 1079 1438 1714
129 239 1080 1623 1720
144 240 1081 1636 1734
192 241 1092 1648 1791
231 1020 1105 1651 1823
233 1038 1152 1674 1824
- elementary, 1418
Report to Congress, 1154
Research and Development, 1181, 1210
Resource Recovery
165 1624 1635 1694 1782
178 1627 1645 1696 1788
1369
Resource Recovery, *see also* Recycling
Resources, 111, 1145, 1764
Retrofit
1128 1212 1319 1398 1745
1192 1285 1362
- conservation, 1298, 1318
Retrofit, *see also* Solar - retrofit
Roof Ventilators, 1366
Round House, 1148
Rural
1003 1094 1175 1707 1768
1065 1156 1514 1733 1818
1080
- transportation, A08, 1147, 1197, 1198

S

Sawhill, John C., 1261
School Projects, 1150
School Projects, *see also* Elementary Level; Secondary Level; Solar - classroom, - schools; Conservation - schools; Sun - elementary
Schumacher, E. F., 108, 114, 146, 1204
Science (Role of), 1100
Scotland, 1080
Secondary Level
1017 1263 1417 1543 1757
1063 1321 1427 1544 1777
1086 1322 1530 1750 1803
1155
Self-Reliance
A13 218 1135 1628 1707
132 1080 1212 1674 1775
Self-Sufficiency
1021 1135 1151 1171 1202
1090
- rural, 132
- urban, 106, 192
SERI (Solar Energy Research Institute)
238 1152 1191
Shading Devices, 1489
Shortage, 1098
Small Business, 1212
Social Impact
A15 135 1063 1173 1408
108 146 1111 1177 1499
114 147 1121 1190 1598
115 157 1123 1195 1600
116 172 1141 1196 1628
119 195 1142 1204 1629
126 1039 1145 1209 1726
127 1041 1160 1229 1756

129 1062 1171
- poor and elderly, 105
- nuclear war, 1140
Soft Path
129 1040 1052 1069 1206
1020
Solar
A10 1083 1207 1505 1683
A12 1092 1213 1513 1702
155 1096 1222 1528 1704
156 1099 1230 1540 1711
192 1100 1256 1552 1720
204 1105 1272 1564 1752
205 1113 1313 1579 1791
220 1152 1346 1597 1793
223 1177 1377 1598 1794
224 1182 1393 1602 1804
226 1186 1438 1604 1807
1017 1190 1447 1623 1808
1018 1195 1456 1639 1811
1076 1202 1477 1674 1824
1081 1203
- access, 1511, 1519, 1596
- active, A13, A14, 195, 1458, 1473
- adobe, 209
- advantages/disadvantages, 1580
- agriculture, 1431, 1545, 1562
- amateur, 1504
- apartments, 209, 1493
- architects, 1802
- architecture
160 208 1448 1480 1520
189
- array, 1523
- beadwall construction, 222, 1406
- breadbox water heaters, 196, 1461
- builders, 217, 1442, 1522, 1790
- building codes, 1596
- buildings, 1045
- business, 1600
- businesses, 1522, 1809
- celebration, 1603
- cells, *see* Solar - photovoltaics
- chimney, 208
- churches, 1564
- classroom, 1418, 1553
- classroom experiments, 1330, 1544
- classroom materials, 1803
- classroom projects, 1417, 1543, 1584
- climate, 1428
- collector sizing, 1460
- collectors
132 201 1423 1468 1800
200 208 1454
- college, 1544
- color absorption, A10
- commercial
188 1479 1516 1554 1562
209
- community, A15, 196, 1587, 1612
- components
1529 1565 1573 1593 1796
1548
- consumers, 1510
- consumer tips
203 1416 1421 1464 1576
213
- contemporary, 1572
- convective loop, 209, 1486
- cookers/cooking
A10 209 1431 1533 1584
205
- cooling
208 217 1404 1438 1485
209
- crop dryers
132 1441 1458 1462 1545
219
- dairy barn, 219
- design
A14 216 1449 1537 1556
191 221 1453 1547 1745
197 222 1488 1555 1797
210 1428 1536
- design analysis, 1571
- design competition, 1442

- design performance, 1487, 1495
- designers, 1802
- development
110 1541 1549 1550 1600
1408
- dictionary, 1542
- direct gain, 194, 207, 212, 1486
- distillation, 1431
- double shell house, 1432
- drum walls, 207, 222
- dryers, 1089
- earth shelter, 1305, 1473
- economics
213 1426 1479 1516 1555
1267 1467 1483 1554
- elderly, 1066
- electricity, 198, 216
- elementary
1146 1418 1440 1543 1611
1402 1437 1472
- employment, 213, 1435, 1470
- engineering
1439 1506 1558 1568 1805
1469 1556 1567
- engineers, 1802
- envelope house, 1432
- experiments, 1417, 1440, 1521, 1539
- facts/fiction, 1607
- farms, 150
- financing
A11 1442 1534 1595 1780
217 1522
- food dryers
148 1422 1465 1514 1560
218 1434 1491 1559
- funds for activists, 1594
- furnaces, 1421
- glazing, 1585
- grassroots, 190
- growing frames, 1588
- health, 1124
- heating and cooling (space/room/air)
(*see also* - water heating)
A14 216 1404 1459 1562
198 1054 1410 1463 1569
199 1066 1413 1490 1573
209 1089 1431 1508 1617
213 1366 1438 1541 1792
214 1401 1457 1554 1807
- heating and cooling analysis, 1566
- heat storage, 212, 1585
- history
198 1448 1510 1541 1580
1440
- homeowners' comments, 1497
- homes, 1453, 1538, 1606, 1790
- housing developments, 1615
- hydronics, A11
- incentives, 1476, 1516, 1572, 1595, 1596
- indirect systems, 1547
- industrial, 1431, 1512, 1545
- installation, 203
- international, 1550, 1617
- International Solar Energy Society; American Section, 1509
- investment, 1534
- kits, 1796
- laws, 1272
- lawns (residential), 1578
- legal, 1038
- legal barriers, 1484
- legislation, 1476, 1519, 1596
- life-cycle cost, 1479
- livestock shelter, 219
- low-cost
A14 214 1412 1454 1562
196 217 1413 1474 1587
197 1410 1452 1481 1797
208
- maintenance, 1248, 1449
- manufacturers, 1802
- masonry walls, 207
- Mesa Verde Pueblo, 214
- midwest, 219
- model legislation, 1484
- movable insulation, 207, 1489, 1531

- orientation, 194
- panels (thermic diode), 1429
- passive
A13 195 1214 1486 1551
A14 197 1442 1494 1608
189 202 1453 1508 1792
190 207 1461 1516 1797
193 208 1473 1520 1798
194 237 1480
- patents, 1779
- performance evaluation, 1608
- photovoltaics
A10 1426 1498 1524 1555
A13 1430 1499 1525 1584
198 1431 1521 1526 1605
216 1475 1523 1527
- pod, 219
- process heat, 1512
- real estate, 1144
- reflectors, 1489
- research, 1550
- researchers, 1802
- residential
160 1149 1420 1466 1562
189 1199 1428 1471 1573
192 1208 1455 1479 1574
213 1262 1457 1516 1577
1127 1405 1459 1557 1586
- retrofit
A14 1128 1514 1561 1610
197 1458 1516 1582 1616
207 1493 1546 1585 1745
208
- roof ponds, 207, 1486
- rural, A11
- school lessons, 200, 221, 1503
- schools and colleges, 1564
- secondary level, 1543, 1544
- semi-conductors, 1517
- siting, 194, 1074
- sizing systems, 1570
- skylid, 222
- snowbelt applications, 210
- south, 219
- Soviet, 1107
- space satellites, 150
- still, 1584
- storage, 1438, 1455
- sun angle chart, 1599
- sunspaces, 202, 1430, 1583
- swimming pool heating, 1541, 1546, 1807
- systems, 1420, 1496, 1556, 1573
- teachers, 1802
- technical schools, 1795
- technical training, 1532
- thermal mass/storage
206 207 1046 1486 1610
- thermal power plants, 1438
- thermosiphoning
196 1582 1591 1592 1613
1575 1590
- training, 1613
- trombe walls
A14 206 207 1585 1610
194
- urban, A11, 106, 192, 196
- vocational-technical, 1590
- water heaters (breadbox), 1409
- water heaters/heating
A14 219 1413 1535 1591
196 1089 1414 1541 1593
198 1130 1415 1547 1613
199 1159 1424 1573 1617
202 1212 1452 1575 1792
203 1346 1461 1576 1801
208 1412 1514 1589 1807
214
- water heater (workshop), 1592
- windows, 1614

Solar Greenhouses
A14 211 1445 1486 1520
132 212 1446 1492 1581
194 219 1450 1500 1582
197 1067 1451 1501 1609
206 1346 1478 1507 1806
207 1425 1482 1518 1824

209 1436
- bilingual booklet (Spanish & English) 1403
- brace design, 1502
- coldframes, 1419
- construction, 187, 190, 211
- design, 187, 190, 211
- fish farming, 1444
- food production, 187, 192
- geodesic, 1411
- growing conditions, 1419
- irrigation systems,1474
- kit, 1748
- movable insulation, 1563
- pests, 211, 1407, 1419
- portable, 1503
- school, 1150
Sources and Uses
110 226 1083 1167 1734
112 1075 1141 1206 1752
113 1081 1154 1390 1755
139
Sources -- Capital (Depletable, Non-renewable) and Income (Renewable, Non-depletable), 1097
Southeastern Forests, 1631
Soviet Union, 1107, 1151, 1210
Sprout Cabinet, 1211
Stobaugh, Robert, 1083
Storage, 1097
Storm Windows and Doors,1212, 1222, 1366, 1368
- plastic, 175
Strategic Reserves, 1103
Sun (Elementary), 204, 205, 1437
Sun and Earth
1427 1472 1601 1603 1629
Superinsulated Houses, 1373, 1374
Superinsulation, 1214
Supplies, 1097
Supply and Demand
119 129 1083 1128 1292
- global, 1086, 1226
- modeling, 1093
Sweet Sorghum (for alcohol), 227
Sweet Sorghum, *see also* Alcohol; Alcohol Fuels
Synthetic Fuels
123 1076 1182 1200 1292
226 1090
Systems
A02 114 1097 1178 1711
108 1094
- food, 125, 1082, 1609
- global, 1085
- industrial, 151
- integrated, 233
- natural, 151, 1176

T

Taiwan, 1151
Tax Policy, 1271
Teach-in, 1095
Teaching
1063 1263 1427 1543 1761
1075 1321 1437 1553 1763
1086 1322 1440 1611 1777
1091 1402 1472 1649 1795
1155 1417 1530 1750 1824
1258 1418
Technology
1096 1101 1190 1210 1629
1097 1181 1205 1628 1720
1100
- health hazards, 1124
- Soviet, 1107
- solar (history), 1448
Terminology, 1097, 1225
Terraset Sun (Solar Elementary School), 221
Thermal Comfort, 1036
Third World, 1205
Three Mile Island, 120, 126, 1173, 1215
Tidal Power, 150, 1113
- Soviet, 1107

Transition from Petroleum, 1190
Transport, Transmission and Storage, 1096, 1752
- health, 1124
Transportation, *see* Carpools; Conservation - transportation; Mass Transit; Vanpools
Treadle Machines, 235

U

Underground, *see* Earth Shelter
United States, 1151
Uranium Mining, 101, 127, 1016
Urban, 1156, 1159, 1175, 1733
- farming, 106
- self-sufficiency, 106
- wind, 1727
Utilities, 1183
- lifeline rates, 1179
- rates, 1132
- regulation, 1028, 1182

V

Values, 107, 114, 151, 216
Vanpools, A08, A09, 174, 1789
Vanpools, *see also* Carpools
Vapor Barriers, 167, 1318, 1362
Vocational Education, 1757
Vocational-Technical Schools/Students, 1530, 1795
Vulnerability, 1103

W

War, 1103, 1104
- nuclear, 1140
Waste, 1054
- disposal, 1117, 1188, 1202
- management
1172 1306 1350 1704 1788
1273 1332 1369 1782
Waste Heat Recovery, 1388
Wasteful Habits/Lifestyles
A02 115 172 1070 1158
A04 152 176 1141 1335
A07
Wasteful Habits/Lifestyles, *see also* Lifestyle
Water Conservation, *see* Conservation - water
Water Heaters/Heating, 1054, 1125, 1130, 1159
- solar, 1212
- solar (breadbox), 1409
Water Heaters, *see also* Conservation - water heaters; Solar - water heaters
Water Power
112 1101 1438 1674 1722
150 1113 1543 1683 1811
234 1127 1623 1711 1824
239
- financing, 1655
- history, 1728
- low-cost, 1687
- micro-hydro, 1676, 1699
- patents, 1779
- small-scale, 1687
Water Power, *see also* Electric Power Generation - hydro-electric, - micro-hydro
Water Problems, 157, 1223
Water Supply, 1704
Waterwheels, 1089
Weatherization
167 175 1067 1319 1393
169 184 1285 1326 1394
171 1038 1290 1391
- humidity control, 1393
- mobile homes, 1392
- windows, 1349
Whole Earth, 1153
Wind
A01 1078 1555 1683 1732
A11 1099 1623 1702 1733

A13 1101 1638 1712 1807
A15 1105 1650 1715 1811
150 1113 1662 1718 1820
156 1127 1666 1720 1821
223 1222 1674 1724 1824
230 1438 1675 1725 1825
231 1496 1679 1726 1826
240 1543 1680 1729 1827
1017 1549 1681 1730 1828
1076
- commercial, 1672
- Darrius rotor, 231
- elementary, 1146, 1402
- farms, 1731
- history, 1728
- industrial, 1731
- patents, 1779
- Savonius rotor, 237
- siting, 1698
- technology assessment, 1719

Windmills, 1089, 1207, 1678
- water pumping, 1713

Window Design, 1614
Window Treatments
175 1298 1363 1398 1614
186 1339 1376 1496 1824
1218 1349 1395
Winter Survival, 1396
Women, 1209, 1397
Wood
A11 1089 1623 1701 1739
205 1127 1640 1702 1811
223 1130 1641 1710 1813
234 1207 1670 1734 1817
1038 1218 1677 1738 1824
- chimneys, 1741
- consumer tips, 1641, 1657
- cooking, 1674, 1703
- cost, 1829
- efficient burning, 1657
- elementary, 1402
- free, 241
- fuel trees, 1741
- fuel values, 1078
- heating, 231, 1174, 1674, 1703
- industrial, 1644
- mobile homes, 1742
- safety
231 242 1656 1742 1829
241 1641 1682
- storage, 1642
- stored heat and light, 204
- stoves
1648 1735 1736 1743 1829
1721
- stoves (cooking), 1174
- stoves (installation), 231, 241, 242
- tree crops, 1722
- vehicle fuel, 1685, 1739, 1740
- water heaters, 1742

Woodburning truck, 1685, 1739
Woodcutting, 1737
Woodlot Management, 241, 1641, 1657
Workshops, 1191

Y

Yergin, Daniel, 144, 1083
Yurt, 1634

Z

Zomeworks, 1607

PERIODICALS

Magazines and journals that contain energy information are listed here.

Publications found to be specially useful by the staff of the Arkansas Energy Office are:

Alternative Sources of Energy

Earth Shelter Digest and Energy Report

Energy User News

Mother Earth News

New Shelter

Solar Age

Wood 'n Energy

Look for these entries in alphabetical order by category.

General

Bulletin
1412-16th Street, NW
Washington, DC 20036
Bimonthly newsletter. The official publication of the Energy Conservation Coalition, an activist alliance of 16 national public-interest groups.

Cities and Energy
1620 Eye Street, NW
Washington, DC 20006
Newsletter. The official publication of the National League of Cities.

EIA Publication - New Releases
National Energy Information Center
1000 Independence Avenue, SW
Washington, DC 20585
Monthly. Covers the latest developments on the newest available Energy Information Administration (EIA) publications, upcoming reports, and news about EIA.

Electric Vehicle News
P. O. Box 533
Westport, CT 06880
Quarterly. Covers developments concerning electric vehicles.

Energy Clinic News
7509 Honeywell Lane
Bethesda, MD 20814
Covers energy-conservation policy and practices.

Energy and Housing Report
Energy Papers, Inc.
1016 16th Street, NW
Suite 225
Washington, DC 20036
Covers energy developments on the national scene.

The Energy Index
292 Madison Avenue
New York, NY 10017
Annual. Reviews the major events of the year, energy legislation, conferences, books, films, and covers the EIC Environmental data base for significant energy coverage. Offers a comprehensive collection from its operations in 50 nations.

Energy Report to the States
Energy Policy Project
National Conference of State Legislatures
1405 Curtis Street, 23rd Floor
Denver, CO 80202
Biweekly newsletter. Provides updates and analyses of state energy legislation activities.

Energy Review
International Academy at Santa Barbara
Environmental Studies Institute
2074 Alameda Padre Serra
Santa Barbara, CA 93103
Bimonthly. The official publication of the Environmental Studies Institute.

Energy Review
UPDATA Publications, Inc.
1756 Westwood Boulevard
Los Angeles, CA 90024

Bimonthly journal. Provides summaries of books, reports, articles, conferences, grants, and audiovisual materials in all areas of energy.

Energy User News
P.O. Box 402
Martinsville, NJ 08836
Weekly. Covers the latest developments in energy technologies, federal and state regulations; of interest primarily to businesses and high-technology groups.

EPRI Journal
Electric Power Research Institute
Communications Division
Box 10412
Palo Alto, CA 94303
Bimonthly journal. Includes status reports on the Institute's research and development projects, new publications, happenings in Washington, and features.

Groundswell
Nuclear Information and Resource Service
1536 16th Street, NW
Washington, DC 20036
Bimonthly. Contains anti-nuclear/pro-solar articles.

The Groundwater Heat Pump Journal
Waterwell Journal Publishing Company
500 West Wilson Bridge Road
Worthington, OH 43085
Quarterly. Covers the latest developments in heat pumps.

International Journal of Hydrogen Energy
Maxwell House
Fairview Park
Elmsford, New York 10523
Reports on hydrogen fuel research.

International Power Generation
2 Queensway
Redhill RHI 10S
England
Monthly. Reports on power requirements of various countries, renewable energy sources, resource recovery, etc.

Mass Transit
555 National Press Building
Washington, DC 20045
Covers the latest developments in mass transit.

Mother Earth News
Mother Earth News, Inc.
105 Stoney Mountain Road
Hendersonville, NC 28739
Bimonthly magazine. Offers grassroots focus on alternative lifestyles designed to preserve the environment and conserve energy.

National Petroleum News
53 West Jackson Boulevard
Chicago, IL 60604
Monthly. Covers the latest developments in petroleum.

The Neighborhood Works
Center for Neighborhood Technology
570 West Randolph Street
Chicago, IL 60606
Biweekly. Covers community development and self-reliance from the perspective of an urban neighborhood; issues addressed include energy conservation, alternative energy, and co-ops.

New Roots
New England Appropriate Technology Network, Inc.
P.O. Box 548
Greenfield, MA 01301
Bimonthly. Focuses on the Northeast; topics include aquaculture, waste recycling, and appropriate technology.

New Shelter
Rodale Press
Emmaus, PA 18049
Monthly magazine. Practical, "do-it-yourself" approach to energy conservation.

Oil Industry USA
The Oil Daily
Department 278
850 Third Avenue
New York, NY 10022

Annual. Covers details of people, positions and companies in the oil industry.

People and Energy
Institute for Ecological Policies
2408 18th Street, NW
Washington, DC 20009
Monthly. Covers citizen action on energy.

Popular Science
Times Mirror Magazines, Inc.
380 Madison Avenue
New York, NY 10017
Monthly magazine. Covers automobiles, homes, new products, and do-it-yourself solar projects; includes a section on energy news.

The Power Line
Environmental Action Foundation
724 Dupont Circle Building
Washington, DC 20036
Monthly newsletter. Keeps citizens abreast of current utility issues around the country. Reports on such topics as rate structure reform, rate increases and growth projections.

Science
American Association for the Advancement of Science (AAAS)
1515 Massachusetts Avenue, NW
Washington, DC 20005
Weekly. Official publication of the AAAS, for scientists across a broad span of disciplines; covers current scientific research results.

Ways and Means
Conference on Alternative Public Policy
1901 Q Street, NW
Washington, DC 20009
Bimonthly newsletter. Written for state and local public officials and community organizers; includes articles about what local governments and organizations are doing in the areas of agriculture, women and the economy, co-op banks, energy, pension rights, and tax reform.

Wise (World Information Service on Energy)
WISE-USA
1536 16th Street, NW
Washington, DC 20036
Newsletter. Covers the latest developments in international energy issues.

Workbook
Southwest Research and Information Center
P. O. Box 4524
Albuquerque, NM 87106
Bimonthly. The official publication of the Southwest Research and Information Center.

U.S. Department of Energy Information Weekly Announcements
Office of Public Affairs
Washington, DC 20585
Weekly. Official department announcement on all energy topics.

Conservation

Bicycle Forum
Bicycle Federation
P. O. Box 68
Silver Spring, MD 20907
The offical publication of the Bicycle Federation.

Compost Science/Land Utilization: Journal of Waste Recycling
Rodale Press
33 East Minor Street
Emmaus, PA 18049
Bimonthly journal. Covers recent developments in recycling waste.

Earth Shelter Digest
WEBCO Publications
479 Fort Road
St. Paul, MN 55102
Bimonthly. Offers case studies and topical articles dealing with earth-sheltered homes; written for the layperson with enough technical information to be useful for builders and architects.

Earth Shelter Digest and Energy Report
1701 East Cope
St. Paul, MN 55109
Bimonthly. Covers the latest developments in earth-sheltered homes.

Energy Conservation Digest
Dulles International Airport
P.O. Box 17346
Washington, DC 20041
Biweekly. Provides information on government findings for conservation projects.

Underground Space
Pergamon Press/Maxwell House
Fairview Park
Elmsford, NY 10523
Bimonthly. Covers the latest technical developments in earth-sheltered homes.

Underline
Underground Space Center
28 Appleby Hall
128 Pleasant Steet, SE
University of Minnesota
Minneapolis, MN 55455
Covers recent developments in earth-sheltered buildings.

Windows for Energy-Efficient Buildings
Energy Efficient Windows Program
E. O. Lawrence Laboratory
1 Cyclotron Road
Berkeley, CA 94720
Periodical supported by the U.S. Department of Energy and designed to bring together inventors, manufacturers, new products, and research to the attention of architects and engineers. It provides grass-roots communication with those involved in the complex structure of federal, state, and local energy programs.

Solar

Aero Sun Times: A Journal of Renewable Energy
Alternative Energy Resources Organization (AERO)
435 Stapleton Building
Billings, MT 59101
Monthly. The official publication of the Alternative Energy Resources Organization.

Solar Age
Solar Vision, Inc.
Church Hill
Harrisville, NH 03450
Monthly. The official publication of the American Solar Energy Society-U.S. Section, formerly the American Section of the International Solar Energy Society. Covers a wide variety of topics on solar energy.

Solar Calendar
Document Distribution Service
Solar Energy Research Institute
1617 Cole Boulevard
Golden, CO 80401
Monthly. A listing of conferences, symposia, workshops, and other formal meetings pertaining to the solar technologies (including wind). To list an event, contact Ann Hansen, Data Base Systems Branch, Solar Energy Research Institute, (303) 231-1260.

Solar Energy Digest
P. O. Box 17776
San Diego, CA 92110
Monthly. Covers, in non-technical terms, new developments in solar energy, including wind energy.

Solar Engineering Magazine
2636 Walnut Hill Lane
Suite 257
Dallas, TX 75229
Monthly magazine. Official trade magazine of the Solar Energy Industries Association. Updates applications of solar energy systems and solar products. Includes government and professional association activities as they relate to solar and energy conservation.

Solar Greenhouse Digest
P. O. Box 2626
Flagstaff, AZ 86003
Bimonthly. An international look at greenhouses, attached and unattached, for heat and food production; features articles on other alternatives as well.

Solar Heating and Cooling
20 Community Place
Morristown, NJ 07960
Monthly. Aimed at the "solar professional";

latest solar technology developments.

Solar Law Reporter
Solar Energy Research Institute
P.O. Box 5400
Denver, CO 80217
Bimonthly. Discusses important issues related to the legal institutions and rules surrounding the development of solar energy (including wind energy).

Solar Life
Solar Energy Institute of North America
1110 6th Street, NW
Washington, DC 20001
Covers solar topics in general.

Solar Living
2636 Walnut Hill Lane
Suite 257
Dallas, TX 75229
Six issues/year. Covers the latest developments in solar energy.

Solar Utilization News
Alternate Energy Institute
P.O. Box 3100
Estes Park, CO 80517
Monthly. Solar information presented geographically to make it easy for you to reference your area; coverage includes solar projects, government research, and legislation.

Sun Times
Solar Lobby
1001 Connecticut Avenue
Fifth Floor
Washington, DC 20036
Monthly. A good up-to-the-minute report on policy, legislative, funding, and grassroots happenings around the country.

Sun Up
58913 Carmelita Circle
Yucca Valley, CA 92284
Monthly. Covers the latest developments in solar energy.

Adobe News
Box 702
Los Lunas, NM 87031
Bimonthly magazine . In-depth articles and information on earthen-brick buildings; emphasis on providing shelter in the southwestern United States and desert regions.

Alternative Energy Education
Energy Education Associates
13 Evergreen Road
Hampton, NH 03942
The official newsletter available from Energy Education Associates.

Alternative Sources Of Energy
Route 2, Box 90A
Milaca, NM 56353
Bimonthly. Provides news, product information and resource listings on alternative energy technologies.

A. T. Times
National Center for Appropriate Technology
P. O. Box 3838
Butte, MT 59702
Bimonthly. Carries articles about alcohol fuels as well as about other appropriate solutions to community energy, housing, food and health problems.

Bio Times
International Biomass Institute
1522 L Street, NW
Suite 600
Washington, DC 20005
Bimonthly. Features articles and updates on energy systems from biomass and other renewable energy resources. Explores agricultural practices that minimize environmental consequences.

Biomass Refining
Solar Energy Research Institute
1617 Cole Boulevard
Golden, CO 80401
Quarterly newsletter. Covers new developments in the biomass field.

Canadian Renewable Energy News

P. O. Box 4869
Station E
Ottawa, Canada K1S5B4
Monthly. Covers the latest developments in renewable energy.

Cascade
454 Willamette
Box 1492
Eugene, OR 97401
Ten issues/year. A journal that provides information on alternative energy, food, gatherings, and other aspects of community cooperation.

The Co-Evolution Quarterly
POINT
Box 428
Sausalito, CA 94965
Quarterly. Articles on building and using soft technology; 60 to 100 book reviews per issue.

Dear Friends
Center for Renewable Resources
1001 Connecticut Avenue, NW
Suite 510
Washington, DC 20036
Monthly newsletter. Covers the latest developments on renewable resources and national policymaking.

Grants Newsletter
California Office of Appropriate Technology
1530 10th Street
Sacramento, CA 95814
Quarterly. A review of current sources of funding for appropriate technologists.

High Country News
331 Main
Lander, WY 82520
Biweekly. Tabloid newspaper that covers energy and environmental issues.

The New Alchemy Newsletter
New Alchemy Institute
Box 47
Woods Hole, MA 02543
Quarterly newsletter. For members only, covers all aspects of the research carried out at the Institute; topics addressed include agriculture, aquaculture, and bio-shelters.

New Life Farm News
Drury, MO 65638
Published irregularly, but worth it when available. New Life Farm researches and diseminates information on alternative energy subjects.

Outlook
Outlook/Governor's State University
Park Forest South, IL 60466
Ten issues/year. Formerly Acorn, covers small-scale technology and self-reliance; includes nontechnical news on local projects and people.

Ozarkia
ECO-Center
730 West Maple Street
Fayetteville, AR 72701
Newsletter that covers alternative energy and lifestyle topics of interest to the Ozarks bioregion.

Rain
2270 Northwest Irving Street
Portland, OR 97210
Monthly. Articles on appropriate technology, as well as book reviews.

Renewable Energy Review Journal
Asian Institute of Technology
P. O. Box 2754
Bangkok, Thailand
Two times yearly. A technological forum for state-of-the-art reviews, feature articles, and data papers on renewable energy.

Self-Reliance
Institute for Local Self-Reliance
1717 18th Street, NW
Washington, DC 20009
Newsletter about developments in urban decentralization.

Small Farm Energy Project Newsletter
Center for Rural Affairs
P. O. Box 736

Hartington, NE 68739
Bimonthly newsletter. Provides information for farms on renewable energy sources such as organic farming, waste recycling, composting, energy conservation, wind, solar, and biofuels; reports on project progress.

Soft Energy Notes
Friends of the Earth
124 Spear Street
San Francisco, CA 94105
Bimonthly. Focuses on sources of information on alternative forms of energy.

Tranet
Transitional Network for Appropriate/Alternative Technologies (TRANET)
P. O. Box 567
Ranseley, ME 04970
Quarterly. Distributed to members of TRANET; promotes appropriate technology and networking.

Wind Engineering
Multi-Science Publishing Company, Ltd.
The Old Mill
Dorset Place
London, E15 10J
England
Quarterly. Offers technical articles, current research on wind and energy systems.

Wind Letter
American Wind Energy Association
1621 Connecticut Avenue, NW
Washington, DC 20009
Bimonthly newsletter. The newsletter of the American Wind Energy Association.

Wind Power Digest
54468 CR 31
Bristol, IN 46507
Quarterly. Provides coverage of the latest developments in wind energy for consumers and businesses through articles, interviews, and reviews; *Wind Power Access Catalog* is an annual supplement.

Woodburning Quarterly and Home Energy Digest
Division of Investment Rarities, Inc.
8009 34th Avenue
South Minneapolis, MN 55420
Quarterly. Information on wood, fireplaces, woodburning stoves, chain saws, and household energy use.

Wood'n Energy
13 Depot Street
P. O. Box 2008
Concord, NH 03301
Monthly. Discusses wood and its by-products (sawdust, wood chips) as a source of heating; offers information on stoves of all kinds.

ORGANIZATIONS

Many groups across the country are involved in discussing and publicizing aspects of the energy situation in the United States and recommendations for change. Below is listed a selection of contacts in various fields.

Government Agencies

Also Public Education Institutions, Universities, and Government Institutes

In Arkansas

Arkansas Energy Office
One State Capitol Mall
Little Rock, AR 72201
(501) 371-1370 or 1-800-482-1122
Offers information about energy usage at home, in cars, in business and in public buildings, as well as on policy and legislation.

Consumer Utilities Rate Advocacy Division
Office of the Attorney General
Justice Building
Little Rock, AR 72201
(501) 371-1967 or 1-800-482-8982
Intervenes in utility rate cases on behalf of ratepayers to oppose rate increases.

Mr. Steve Harris
Division of Community Services
Department of Human Services
1306 Donaghey Building
Little Rock, AR 72201
(501) 371-1201
Offers weatherization assistance.

Ms. Dorothy K. Rappeport, Commissioner
Division of Social Services
Department of Human Services
P.O. Box 1437
Little Rock, AR 72203
(501) 371-2521

or

Ms. Joie Wallis, Administrator
Income Support
Office of Program Operations
(501) 371-2434
Offers information on low-income energy assistance.

Mr. Randal McCain
Executive Director
Office on Aging
Department of Human Services
Donaghey Building, No. 1428
Little Rock, AR 72201
(501) 371-2441
Offers aid to the elderly.

Mr. Gary Hacking, Director
Oil Heritage Center
Box 77
Smackover, AR 71762
(501) 725-2877
This museum offers programs on the Arkansas oil industry and energy in general.

Public Service Commission
400 Union Station
Little Rock, AR 72201
Complaints: (501) 371-1718
Sets the rates for utilities.

Arkansas Geological Commission
3815 West Roosevelt Road
Little Rock, Arkansas 72204
(501) 371-1646
Provides information about energy resources in the state.

Arkansas Liquified Petroleum Gas Board
1421 West Sixth Street
Box 3641
Little Rock, Arkansas 72203
(501) 371-1008
Regulates dealers of bottled gas.

Arkansas Oil and Gas Commission
314 East Oak Street
El Dorado, Arkansas 71730
(501) 862-4965
Provides information about the oil and gas industry.

U. S. Small Business Administration
Contact your bank or the Arkansas field office at:
320 West Capitol, Suite 601
Little Rock, AR 72201
(501) 378-5871
Offers loans to start businesses dealing in solar energy or energy-conservation measures.

Federal Mine Safety and Health Administration
700 West Capitol Avenue
Little Rock, Arkansas 72201
(501) 378-5281
Provides information about coal mines.

Outside Arkansas

American Museum of Science and Energy
Oak Ridge Associated Universities
Box 117
Oak Ridge, TN 37830
(615) 576-3215
Offers free display panels and exhibits on energy.

Amtrak
Office of Consumer Affairs
Box 2709
Washington, DC 20013
(202) 383-2121
Offers information on passenger rail service.

Center for Occupational Research and Development (CORD)
601 Lake Air Drive
Waco, TX 76710
(817) 772-8756
Offers technical and occupational training curricula in energy conservation and use technology.

Conservation and Renewable Energy Inquiry and Referral Service (CAREIRS)
Box 8900
Silver Spring, MD 20907
(800) 523-2929
Offers a variety of solar and alternate-energy information.

Consumer Information Center
Pueblo, CO 81009
Offers *The Consumer Information Catalog.*

Council on Environmental Quality
722 Jackson Place, NW
Washington, DC 20006
Offers information about environmental concerns in the use of energy.

Administrator
Economic Regulatory Administration
2000 M Street, NW
Washington, DC 20461
(202) 254-5474 or 800-424-9246
Regulates the oil industry, administers the Public Utility Reform Act and carries out some energy emergency programs of the U.S. Department of Energy.

Geothermal Resources Council
Box 98
Davis, CA 95616
(916) 758-2360
Offers information on geothermal energy.

Midland Energy Institute
900 Grand Avenue
Kansas City, MO 64106
(816) 842-2459
Offers weatherization training.

National Bureau of Standards
Office of Energy Conservation
Building 226, Room B114
Washington, DC 20234
Provides conservation information of all kinds.

National Center for Appropriate Technology (NCAT)
P.O. Box 3838
Butte, MT 59701
(406) 494-4577
Offers publications on appropriate technology, economic development, energy conservation, community gardens, and wind.

National Community Energy Management Center
John Topinka

National Association of Counties
1735 New York Avenue, NW
Washington, DC 20006
Offers energy technical assistance for local government or community energy management programs. The Center is operated by the Academy for Contemporary Problems and is a cooperative project of the National Association of Counties, state and local government associations and federal agencies.

National Energy Information Center
E1-22, Room 1 F-048
1000 Independence Avenue, SW
Washington, DC 20585
(202) 52-8800
Offers information on publications of the Federal Energy Information Administration.

National Gasohol Commission
521 South 14th, Suite 5
Lincoln, NE 68508
(402) 475-8044
Offers gasohol information.

National Technical Information Service
U. S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
(703) 557-4780
Offers *Conservation and Renewable Energy Resource Directory* and general energy information.

Office of Public Affairs
Nuclear Regulatory Commission
Washington, DC 20555
(202) 492-7715
Supervises generation of electric power from nuclear energy; nuclear reactors; and civilian use of nuclear materials.

Solar Energy Research Institute
1617 Cole Boulevard
Golden, CO 80401
(303) 231-1158
Offers information on technical solar energy issues, gasohol, wind, biomass usage, etc.

Southwest Research and Information Center
Box 4524
Albuquerque, NM 87106
(505) 242-4766
Offers information on the nuclear industry and solar energy.

Superintendent of Documents
U. S. Government Printing Office
Washington, DC 20402
(202) 275-2051
Lists energy publications available from this agency.

U. S. Consumer Product Safety Commission
Washington, DC 20207
Offers safety factsheets on space heaters, wood stoves, urea formaldehyde insulation, etc.

U. S. Department of Commerce
Office of Energy Programs
14th & Constitution Avenue
Washington, DC 20230
Offers a variety of information on energy sources and uses.

U. S. Department of Energy
Electric & Hybrid Vehicle Program
Division of Transportation Energy Conservation
Washington, DC 20585
Offers information on electric cars.

U. S. Department of Energy
Office of Consumer Affairs
Washington, DC 20585
Offers the *Consumer Energy Atlas*, listing hotlines, energy organizations, government offices on energy, etc.

U. S. Department of Energy
Technical Information Center
Box 62
Oak Ridge, TN 37830
Attn: Citizens' Assistance Section
Offers information on energy careers, fuel alcohol, home energy conservation.

U. S. Department of Interior
Bureau of Mines

Mineral Industry Surveys
Washington, DC 20241
(202) 634-4737
Offers oil industry overview.

U. S. National Alcohol Fuels Commission
412 First Street, SE
Washington, DC 20003
(202) 426-6490
Offers information on alcohol fuel.

Director, Office of Public Affairs
Urban Mass Transit Administration
U. S. Department of Transportation
Washington, DC 20590
(202) 426-4043
Offers information on bus and rapid-rail systems.

Citizens' Groups

Also Nonprofit Organizations and Public-Interest Groups

In Arkansas

Arkansas Renewable Resources Council
Box 1908
Conway, AR 72032
Conway: (501) 329-9121 or
Little Rock: (501) 374-7874
Offers general energy information.

Mr. James Deal
Arkansas Solar Coalition
1145 West Hearn
Blytheville, AR 72315
Offers general information on solar activity in the state.

Association of Community Organizations for Reform Now (ACORN)
532 West 15th Street
Little Rock, AR 72202
(501) 376-7151
Grassroots membership organization of low and moderate-income people, with chapters in many states. Concerned with helping people deal with issues such as utility rates, housing costs, etc.

Dogwood Alliance
c/o Ms. Sara Stage
5904 West Markham
Little Rock, AR 72205
Work: (501) 664-8834 or
Home: (501) 372-1534
Provides information on nuclear-power safety considerations.

League of Women Voters of Arkansas
Park Plaza Shopping Center
Markham & University Streets
Little Rock, AR 72205
(501) 666-9369
Offers factsheets to aid groups in discussing energy questions.

Pulaski County Audubon Society
Ms. Florence Mallard, Pres.
5809 North Country Club
Little Rock, AR 72207
Contact Mr. Scott Trotter at (501) 663-8803
Discusses energy issues in general.

Ms. Jane Stern
Three Rivers Audubon Society
2404 West 47th Avenue
Pine Bluff, AR 71603
(501) 534-8281
Considers energy as it affects the environment.

Outside Arkansas

Alliance to Save Energy
1925 K Street, NW
Washington, DC 20006
(202) 857-0666
Offers energy conservation information.

Audubon
see National Audubon Society

Mr. John Dowlin
The Bicycle Network
14 Oak Street
Brattleboro, VT 05301
Provides information to bicycling enthusiasts.

Bikecentennial

P. O. Box 8303
Missoula, MT 59807
(406) 721-1776
Membership organization providing a wide range of services to touring cyclists. Established the Trans America Bicycle Trail in 1976. Publishes bimonthly, Bike-Report, for members, plus other materials such as trail directories, bicycling tips, etc.

Center for Renewable Resources
1001 Connecticut Avenue, NW
Washington, DC 20036
(202) 466-6880
Conducts policy research, provides consumer information and offers technical assistance to those interested in renewable energy resources.

Citizens' Energy Project
1110 6th Street, NW, No. 300
Washington, DC 20001
(202) 289-4999
Serves as information clearinghouse for Mid-Atlantic states on conservation, solar and other appropriate technologies. Provides networking, speakers, reports and publications.

Small Farm Energy Project
Center for Rural Affairs
Box 736
Hartington, NE 68739
(402) 254-6893
Offers information on energy-saving innovations and energy conservation methods for small, low-income farmers through a newsletter, tape program, and tours.

Citizen/Labor Energy Coalition
1300 Connecticut Avenue, NW
Room 401
Washington, DC 20036
(202) 857-5225
A group of labor, community and senior-citizen organizations that offers information on energy issues.

Conference on Alternative State and Local Public Policies
2000 Florida Avenue, NW
Washington, DC 20009
(202) 387-6030
Offers information on policy and legislation concerning renewable energy and conservation.

Consumer Action Now, Inc. (C.A.N.)
110 West 34th
New York, NY 10001
(212) 736-8170
Offers information on solar and renewables and conservation.

Consumer Energy Council of America
1990 M Street, NW, Suite 620
Washington, DC 20036
(202) 659-0404
Offers information on the utilities and energy issues.

Cornucopia Project
Publications Department
33 East Minor Street
Emmaus, PA 18049
(215) 967-5171
Offers research results on organic farming projects and alternatives to large agribusiness operations.

Critical Mass Energy Project
Box 1538
Washington, DC 20013
(202) 546-4790
A Ralph Nader group that offers information on nuclear energy, solar energy and utility rates.

Energy Action Committee
1523 L Street, NW, Suite 302
Washington, DC 20005
(202) 737-6220
A nonprofit public-interest organization that monitors government and industry activities in the energy field.

Energy Conservation Coalition
1412 - 16th Street, NW
Washington, DC 20036
Alliance of 16 national public-interest organizations and over 200 local affiliates. Founded

in 1981 as an activist, citizen-based coalition focusing full-time on energy conservation.

Environmental Action Coalition
235 East 49th Street
New York, NY 10017
(212) 929-8481
Requires a stamped self-addressed business envelope and will offer publications on all aspects of energy.

Environmental Action Foundation
724 Dupont Circle Building
Washington, DC 20036
(202) 659-9682
Offers information on electric utilities and related subjects such as solar energy, coal, synfuels and energy conservation.

Environmental Law Institute
1346 Connecticut Avenue, NW
Suite 600
Washington, DC 20036
(202) 452-9600
Does research and conducts educational programs on institutional and legal issues affecting the environment.

Environmental Policy Center
317 Pennsylvania Avenue, SE
Washington, DC 20003
(202) 547-6500
Works to promote energy conservation, renewable energy resources, diverse decentralized energy production systems and to reform nuclear licensing procedures, federal radiation standards and waste disposal policies. Specializes in representing broad-based citizen coalitions before Congress and the executive branch.

Foresta Institute for Ocean and Mountain Studies
6205 Franktown Road
Carson City, NV 89701
(702) 882-6361
Offers information on heat exchanges between water bodies and land surfaces.

Friends of the Earth
124 Spear Street
San Francisco, CA 94105
(415) 495-4770
Offers information on conservation of non-renewable resources and comprehensive guide *Energy and Environment Checklist*.

Institute for Local Self-Reliance
1717 18th Street, NW
Washington, DC 20009
(202) 232-4108
Offers research, demonstration and consulting services on technical feasibility of community self-reliance in high-density living areas.

National Association for Environmental Education
Box 400
Troy, OH 45373
(513) 698-6483
Offers educational programs on energy as it affects the environment.

National Association of Farmworker Organizations
1332 New York Avenue, NW
Washington, DC 20005
(202) 347-2407
National coalition of organizations advocating farmworker rights and concerns. Sponsors programs on energy crisis assistance, housing and education.

National Audubon Society
950 Third Avenue
New York, NY 10022
(212) 832-3200
Offers information on energy conservation.

National Consumer Law Center Energy Project
11 Beacon Street
Boston, MA 02108
(617) 523-8010
Represents the legal interests of low-income energy consumers. Provides legal, technical and policy advice as well as education and training to those advocating reforms benefiting low-income consumers. Publishes periodic bulletins to keep utility groups informed

of new developments in utility policy.

National Council of Churches Energy Project
475 Riverside Drive, Room 572
New York, NY 10027
(212) 870-2385
Covers social and economic implications of energy in a series of pamphlets.

National Science Teachers Association
1742 Connecticut Avenue, NW
Washington, DC 20009
(202) 265-4150
Offers *The Energy-Environment Materials Guide*.

National Wildlife Federation
1412 17th Street, NW
Washington, DC 20036
(202) 797-6800
Offers energy conservation information.

New Life Farm, Inc.
Drury, MO 65638
(417) 261-2553
Educational and research group that furthers individual and community self-reliance through regionally-based food production and efficient low-cost, renewable-energy technology. Conducts research on methane digestion, alternative waste disposal, solar energy, etc.

Nuclear Information and Resource Center
1536 16th Street, NW
Washington, DC 20036
(202) 483-0045
This nonprofit organization offers information on nuclear power, energy conservation and congressional votes on nuclear legislation.

Recycling Legislation Action Coalition
P. O. Box 1055
Boston, MA 02103
(617) 242-2862
Offers a statewide network of groups and individuals united to research, draft and lobby to promote and enforce recycling of solid materials. Seeks to help participants coordinate activities, information, funding and volunteers, and to aid groups pursuing environmental legislation projects of their own.

Rural America
1346 Connecticut Avenue, NW
Washington, DC 20036
(202) 659-2800
Offers information on energy legislation affecting rural families.

School of Living
Box 3233
York, PA 17402
(717) 755-1561
Puts on workshops on how lifestyles affect energy consumption.

Scientists' Institute for Public Information
355 Lexington Avenue
New York, NY 10017
(212) 661-9110
Offers information on the economy and nuclear-energy issues.

Shelter Institute
38 Center Street
Bath, ME 04530
(207) 442-7938
Conducts three-week course for people interested in learning to build their own homes using passive solar principles. Carries large line of energy-saving devices and books.

Sierra Club
530 Bush Street
San Francisco, CA 94108
(415) 981-8634
Offers information on energy legislation, national energy policy.

Solar Lobby
1001 Connecticut Avenue, NW
Suite 510
Washington, DC 20036
(202) 466-6350
Promotes decentralized solar technologies.

Southern Unit Networks/Renewable Energy

Projects (SUN-REP)
3110 Maple Drive, Suite 412
Atlanta, GA 30305
Promotes appropriate technology.

Union of Concerned Scientists
Publications Department
1384 Massachusetts Avenue
Cambridge, MA 02238
Offers information on nuclear power plants.

The Walking Association
4113 Lee Highway
Arlington, VA 22207
(703) 527-5374
Promotes walking for health and energy saving. Lobbies for recognition of walkers' rights, pedestrian safety.

Wood Heating Alliance
1101 Connecticut Avenue, NW
Suite 700
Washington, DC 20036
(202) 857-1181
Offers information on wood energy.

Worldwatch Institute
1776 Massachusetts Avenue, NW
Suite 701
Washington, DC 20005
(202) 452-1999
Offers information on social trends.

Industry Representatives

Also Trade or Professional Associations

In Arkansas

Contact your local gas and electric utility.

American Institute of Architects
Frank Ivey, Executive Director
Suite 610
Twin City Bank Building
Riverfront Place
North Little Rock, AR 72114
Offers efficiency design information about buildings.

Arkansas Petroleum Council
302 Commercial National Bank Building
Little Rock, AR 72201
(501) 375-9964
Provides information on oil resources, supplies, etc.

Outside Arkansas

Air-Conditioning and Refrigeration Institute
1815 North Fort Myer Drive
Arlington, VA 22209
Offers conservation and efficiency information.

American Boiler Manufacturers Association
1500 Wilson Boulevard
Suite 317
Arlington, VA 22209
Offers efficiency guidelines.

American Gas Association
1515 Wilson Boulevard
Arlington, VA 22209
(703) 841-8676
Offers gas-conservation information, industry resources, etc.

American Institute of Driving Efficiency
892 Rice Street
St. Paul, MN 55117
Offers conservation in transportation information and sells the film **Featherfoot.**

American Institute of Plant Engineers
1021 Delta Avenue
Cincinnati, OH 45208
Offers efficiency information.

Alyeska Pipeline Service Company
1835 South Bragaw Street
Anchorage, AK 99504
(907) 278-1611
Offers information on the Alaskan oil pipeline.

Dr. Arnold Shinn, Vice President
American Paper Institute, Inc.
260 Madison Avenue
New York, NY 10016

(212) 340-0600
Offers information on energy usage in the paper and pulp industry.

American Petroleum Institute
2101 L Street, NW
Washington, DC 20037
(202) 457-7160
Offers *Looking for Energy? A Guide to Information Resources* and oil industry information.

American Power Conference
Illinois Institute of Technology
Technology Center
Chicago, IL 60616
(312) 567-3196
Offers information on power industry issues.

American Society of Heating, Refrigerating & Air-Conditioning Engineers, Inc. (ASHRAE)
345 East 47th Street
New York, NY 10017
(212) 664-7940
Offers information on design standards that concern energy usage in machines.

American Wind Energy Association
1621 Connecticut Avenue, NW
Washington, DC 20009
(202) 667-9137
Offers wind energy information.

Association of Energy Engineers
Educational Programs
4025 Pleasantdale Road, Suite 340
Atlanta, GA 30340
Offers information on energy conservation, solar energy and synthetic fuels.

Association of Home Appliance Manufacturers
20 N. Wacker Drive
Chicago, IL 60606
(312) 984-5818 - Public Information Director
Offers information on appliance energy consumption.

Association of Oilwell Servicing Contractors
6060 North Central Express
Suite 462
Dallas, TX 75206
(214) 692-0711
Offers offshore oil-exploration information.

Atomic Industrial Forum, Inc.
7101 Wisconsin Avenue
Bethesda, MD 20014
(301) 654-9260
Offers information on nuclear energy.

Ayring Research Institute
1455 West, 820 North
Provo, UT 84601
(801) 315-2434
Researches extraction of coal, tar sands and oil shale.

Better Heating - Cooling Council
35 Russo Place
Berkeley Heights, NJ 07922
Offers information on building mechanical systems and conservation.

Building Owners & Managers Association International
1221 Massachusetts Avenue, NW
Washington, DC 20036
Offers efficiency information.

Channing L. Bete Company, Inc.
45 Federal Street
Greenfield, MA 01301
(413) 774-2301
Offers information on coal gasification, oil shale, home energy conservation, etc.

Cornerstones
54 Cumberland Street
Brunswick, ME 04011
(207) 729-0540
Prepares comprehensive solar-education curriculum for vocational technology and adult-education programs. Conducts workshops and courses in passive solar design and construction, retrofitting and solar greenhouse design.

Domestic Technology Institute
Box 2043
Evergreen, CO 80439
(303) 674-1597

Conducts workshops on rural solar greenhouse design/construction, community energy technology, small-scale food production, nutrition and food preservation.

Edison Electric Institute
Educational Services
1111 19th Street, NW
Washington, DC 20036
(202) 828-7587
Offers electricity conservation information.

ECI, Inc.
292 Madison Avenue
New York, NY 10017
(212) 949-9494
Monitors information generated by governments, key international trade and professional organizations, corporations, and respected researchers to provide abstract journals, annual indexes, directories, yearbooks, binder services, computer tapes, online networks, microfiche libraries, and contract research.

Heat Exchange Institute
122 East 42nd Street
New York, NY 10017
Offers information in the field of heat exchangers.

Illuminating Engineering Society
345 East 47th Street
New York, NY 10017
Offers lighting efficiency information.

Institute of Scrap Iron & Steel, Inc.
1627 K Street
Washington, DC 20006
Offers information on metal recycling.

International District-Heating Association
5940 Baum Square
Pittsburgh, PA 15026
Provides information on district-heating projects.

National Association of Home Insulation Contractors
4750 Wisconsin Avenue, NW
Washington, DC 20016
(202) 363-8100
Offers efficiency information.

National Association of Recycling Industries
330 Madison Avenue
New York, NY 10017
(212) 867-7330
Encourages recycling of materials.

National Association of Vanpool Operators
610 Ivystone Lane
Cinnaminson, NJ 08077
Provides tips on organizing vanpools.

National Chimney Sweep Guild
P. O. Box 1314
Nashua, NH 03061
(603) 880-7831
Lists local members who will sweep chimneys.

National Coal Association
1130 17th Street, NW
Washington, DC 20036
(202) 628-4322
Offers coal information.

National Electrical Contractors Association
7315 Wisconsin Avenue
Washington, DC 20014
Provides efficiency information.

National Insulation Contractors Association
8630 Fenton Street, Suite 506
Silver Spring, MD 20910
Provides efficiency information.

National LP-Gas Association
79 West Monroe Street
Chicago, IL 60603
Provides conservation information.

National Petroleum Council
1625 K Street, NW, Suite 601
Washington, DC 20006
(202) 393-6100
Offers oil information.

National Rural Electric Cooperative Association

1800 Massachusetts Avenue, NW
Washington, DC 20036
(202) 857-9500
National association representing rural electric cooperatives.

Solar Energy Institute of America
1110 Sixth Street, NW
Washington, DC 20001
(202) 667-6611
Information source for architects, engineers, contractors, manufacturers, etc. Provides literature, audiovisual presentations, speakers and other services.

Standard Oil Company (Indiana)
Mail Code 3705, Box 5910-A
Chicago, IL 60680
(312) 856-6111
Offers general energy information.

Steam Heating Equipment Manufacturers Association
c/o Samuel J. Reid, Barnes & Jones, Inc.
P. O. Box 207
Newtonville, MA 02160
Offers conservation information.

Total Environmental Action, Inc.
Church Hill
Harrisville, NH 03450
(603) 827-3374
Offers engineering, design and consulting, research and education services on energy conservation as well as solar, wind and other energy alternatives. Offers workshops, training programs and many publications.